

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 3.54354 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_137\_166

Perfect score: 149

Sequence: 1 STSQNDSTSGTSTSDSDPMQLKMF 30

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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- 2: /cgn2\_6/prodata/1/iaa/5B COMB.pcp.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	149	100.0	385	1	US-08-891-254-3
2	149	100.0	385	2	US-08-819-539-3
3	149	100.0	385	5	PCT-US93-06243-2
4	149	100.0	385	5	PCT-US96-08819-3
5	149	100.0	403	2	US-08-200-724A-2
6	149	100.0	403	2	US-09-030-270A-3
7	149	100.0	403	3	US-08-851-376A-2
8	149	100.0	403	3	US-08-984-207-3
9	149	100.0	403	3	US-09-013-587-3
10	149	100.0	403	4	US-09-086-118-23
11	57	38.3	669	4	US-09-107-532A-6532
12	54	36.2	283	4	US-09-198-452A-424
13	54	36.2	391	2	US-08-454-549-3
14	54	36.2	391	3	US-08-454-552-3
15	54	36.2	391	3	US-08-676-351-4
16	54	36.2	398	1	US-08-149-093A-5
17	54	36.2	398	2	US-08-911-245-5
18	54	36.2	398	2	US-08-514-451A-8
19	54	36.2	398	3	US-09-170-331-5
20	54	36.2	398	3	US-08-889-108-2
21	54	36.2	398	3	US-08-120-601B-2
22	54	36.2	398	3	US-08-188-275A-3
23	54	36.2	398	3	US-08-397-707-16
24	54	36.2	398	3	US-09-510-473-5
25	54	36.2	398	4	US-09-351-198-3
26	54	36.2	398	4	US-09-113-426-3
27	54	36.2	398	4	US-09-048-916B-7

28	54	36.2	398	4	US-08-405-271A-16	Sequence 16, Appl
29	54	36.2	398	5	PCT-US94-10358-2	Sequence 2, Appl1
30	54	36.2	1258	3	US-08-310-912A-107	Sequence 107, App
31	54	36.2	1258	3	US-09-301-085-107	Sequence 107, App
32	54	36.2	1294	3	US-08-930-996A-10	Sequence 10, Appl
33	53	35.6	277	6	5164481-2	Patent No. 5164481
34	53	35.6	1063	1	US-08-093-453B-3	Sequence 3, Appl1
35	53	35.6	1063	1	US-08-127-499A-8	Sequence 8, Appl1
36	53	35.6	1063	1	US-08-482-847-8	Sequence 8, Appl1
37	51	34.2	683	4	US-09-620-413C-357	Sequence 357, App
38	51	34.2	683	4	US-09-598-419-357	Sequence 357, App
39	51	34.2	821	4	US-09-556-877-195	Sequence 195, App
40	51	34.2	821	4	US-09-620-412C-195	Sequence 195, App
41	51	34.2	821	4	US-09-598-419-195	Sequence 195, App
42	51	34.2	1776	4	US-09-556-877-179	Sequence 179, App
43	51	34.2	1776	4	US-09-620-412C-179	Sequence 179, App
44	51	34.2	1776	4	US-09-598-419-179	Sequence 179, App
45	50	33.6	300	4	US-09-328-352-7197	Sequence 7197, Ap

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-891-254-3

Query Match 100.0%; Score 149; DB 1; Length 385;  
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Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 137 STSQNDSTSGTDTSDSSDPMQQLKMF 166
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RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3
Query Match 100.0%; Score 149; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 137 STSQNDSTSGTDTSDSSDPMQQLKMF 166
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RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2
Query Match 100.0%; Score 149; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSDPMQQLKMF 30
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Db 137 STSQNDSTSGTDTSDSSDPMQQLKMF 166
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RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,376A  
FILING DATE: 05-MAY-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/200,724  
FILING DATE: 23-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10035  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 149; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.1e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30  
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166

RESULT 8  
US-08-984-207-3  
Sequence 3, Application US/08984207  
Patent No. 6235974  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 149; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.1e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30  
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166

RESULT 9  
US-09-013-587-3  
Sequence 3, Application US/09013587  
Patent No. 6277814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 149; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.1e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTDSDDPMQQLKMF 30  
DB 137 STSQNDSTSGTSTDSDDPMQQLKMF 166



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RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 149; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 2.1e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30
Db 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:

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; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
US-09-107-532A-6532

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Best Local Similarity 63.2%; Pred. No. 2.3;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDSTSGTDTSDSD 20
Db 534 TSQSDSTDTTSTSDSD 552

RESULT 12
US-09-198-452A-424
; Sequence 424, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 424
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-424

Query Match 36.2%; Score 54; DB 4; Length 283;
Best Local Similarity 45.8%; Pred. No. 2.2;
Matches 11; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 7 DSTSGTDTSDSDPMQQLKMF 30
Db 144 DKTTGGGSSVSSEQLQQLSLVS 167

RESULT 13
US-08-454-549-3

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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.5976 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_150\_179

Perfect score: 151  
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Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	151	100.0	403	9	US-09-086-118-23
2	151	100.0	403	9	US-09-835-684-3
3	151	100.0	403	9	US-09-880-371-3
4	151	100.0	403	9	US-09-879-248-3
5	151	100.0	403	9	US-09-770-693-3
6	151	100.0	403	10	US-09-766-348-3
7	151	100.0	403	12	US-10-387-806-23
8	151	100.0	403	15	US-10-034-158-3
9	151	100.0	403	15	US-10-010-390-3
10	52.5	34.8	456	12	US-10-369-493-21644
11	50.5	33.4	455	12	US-10-369-493-1270
12	50.5	33.4	455	12	US-10-369-493-20336
13	49	32.5	135	12	US-09-819-094-18
14	49	32.5	136	15	US-10-043-487-337
15	49	32.5	191	12	US-10-153-207-2

16	49	32.5	192	12	US-09-819-094-17	Sequence 17, Appl
17	49	32.5	229	15	US-10-103-313-411	Sequence 411, Appl
18	48	31.8	97	10	US-09-738-626-5532	Sequence 5532, Ap
19	48	31.8	283	12	US-10-289-762-424	Sequence 424, App
20	48	31.8	1085	12	US-10-369-493-21699	Sequence 21699, A
21	48	31.8	2437	12	US-10-345-072-85	Sequence 85, Appl
22	48	31.8	2437	15	US-10-195-144-85	Sequence 67, Appl
23	47	31.1	166	12	US-10-389-674-67	Sequence 67, Appl
24	47	31.1	480	12	US-10-374-979-106	Sequence 106, App
25	46	30.5	317	15	US-10-066-320-4	Sequence 4, Appli
26	46	30.5	782	15	US-10-106-698-6231	Sequence 6231, Ap
27	46	30.5	911	15	US-10-068-320-2	Sequence 2, Appli
28	46	30.5	911	15	US-10-087-464-6	Sequence 6, Appli
29	46	30.5	911	15	US-10-087-464-6	Sequence 8, Appli
30	46	30.5	1186	12	US-10-369-493-23124	Sequence 23124, A
31	45.5	30.1	112	11	US-09-764-872-297	Sequence 297, App
32	45.5	30.1	203	12	US-10-369-493-18883	Sequence 18883, A
33	45.5	30.1	203	12	US-10-369-493-18891	Sequence 18891, A
34	45.5	30.1	273	12	US-10-369-493-20096	Sequence 20096, A
35	45	29.8	212	15	US-10-127-032-166	Sequence 166, App
36	45	29.8	995	15	US-10-234-432-69	Sequence 69, Appl
37	44.5	29.5	114	11	US-09-764-891-4151	Sequence 4151, Ap
38	44.5	29.5	643	12	US-10-108-260A-4552	Sequence 4552, Ap
39	44	29.1	103	9	US-09-107-058-3	Sequence 3, Appli
40	44	29.1	103	9	US-09-761-117-3	Sequence 3, Appli
41	44	29.1	390	12	US-10-108-260A-4549	Sequence 4549, Ap
42	44	29.1	390	12	US-10-104-047-3849	Sequence 3849, Ap
43	44	29.1	417	12	US-10-116-275-224	Sequence 224, App
44	44	29.1	439	12	US-10-264-049-2660	Sequence 2660, Ap
45	44	29.1	874	11	US-09-893-519A-50	Sequence 50, Appl

ALIGNMENTS

RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

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; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-23

Query Match      100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US2002001933A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-835-684-3

Query Match      100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US2002005958A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-880-371-3

Query Match      100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-879-248-3

Query Match      100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-770-693-3

Query Match      100.0%; Score 151; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179

RESULT 6
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US2002005958A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-880-371-3
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US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Deven
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 151; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 151; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min

```

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; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 151; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match      100.0%; Score 151; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDGDG 30
Db 150 STSDSDPMQQLMKMFSEIMQSLFGDGDG 179

RESULT 10
US-10-369-493-21644
; Sequence 21644, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493

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;  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 21644  
; LENGTH: 456  
; TYPE: PRT  
; ORGANISM: Pyrococcus abyssi  
US-10-369-493-21644

Query Match 34.8%; Score 52.5; DB 12; Length 456;  
Best Local Similarity 48.1%; Pred. No. 19;  
Matches 13; Conservative 5; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30  
Db 218 EPNEENLKFEIIVKSLGADFGVAQDG 244

## RESULT 11

US-10-369-493-1270  
; Sequence 1270, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 1270  
; LENGTH: 455  
; TYPE: PRT  
; ORGANISM: Pyrococcus horikoshii  
US-10-369-493-1270

Query Match 33.4%; Score 50.5; DB 12; Length 455;  
Best Local Similarity 44.4%; Pred. No. 37;  
Matches 12; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30  
Db 218 EPNEENLKFEIIVKALGADFGVAQDG 244

## RESULT 12

US-10-369-493-20336  
; Sequence 20336, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 20336  
; LENGTH: 455  
; TYPE: PRT

;  
; ORGANISM: Pyrococcus horikoshii  
US-10-369-493-20336

Query Match 33.4%; Score 50.5; DB 12; Length 455;  
Best Local Similarity 44.4%; Pred. No. 37;  
Matches 12; Conservative 6; Mismatches 6; Indels 3; Gaps 1;

QY 7 DPMQQLKMFSEIMQSL---FGDGQDG 30  
Db 218 EPNEENLKFEIIVKALGADFGVAQDG 244

## RESULT 13

US-09-819-094-18  
; Sequence 18, Application US/09819094  
; Publication No. US20030186382A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, Richard I.  
; APPLICANT: Martial, Joseph A.  
; APPLICANT: Struman, Ingrid  
; APPLICANT: Taylor, Robert  
; APPLICANT: Bentzien, Frauke  
; TITLE OF INVENTION: No. US20030186382A1el Antiangiogenic Peptide Agents and Their  
; FILE REFERENCE: UCSF-018/02US  
; CURRENT APPLICATION NUMBER: US/09/819,094  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: 09/076,675  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: 60/046,394  
; PRIOR FILING DATE: 1997-05-12  
; NUMBER OF SEQ ID NOS: 34  
; SEQ ID NO 18  
; LENGTH: 135  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-819-094-18

Query Match 32.5%; Score 49; DB 12; Length 135;  
Best Local Similarity 48.3%; Pred. No. 15;  
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQQLKMFSEIMQSLFGDGQDG 30  
Db 106 TSDSD--YHLLKDLKEGIQTLMGLEDG 132

## RESULT 14

US-10-043-487-337  
; Sequence 337, Application US/10043487  
; Publication No. US20030055220A1  
; GENERAL INFORMATION:  
; APPLICANT: HYBRIGENICS  
; APPLICANT: Pierre, LEGRAIN  
; TITLE OF INVENTION: Protein-protein interactions between Shigella Flexneri polypeptide  
; FILE REFERENCE: B4778A  
; CURRENT APPLICATION NUMBER: US/10/043,487  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/261,130  
; PRIOR FILING DATE: 2001-01-12  
; NUMBER OF SEQ ID NOS: 561  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 337  
; LENGTH: 136  
; TYPE: PRT  
; ORGANISM: Shigella Flexneri  
US-10-043-487-337

Query Match 32.5%; Score 49; DB 15; Length 136;  
Best Local Similarity 48.3%; Pred. No. 15;  
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQOLLKMFSEIMQSLFGDGDG 30  
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Db 50 TSDSD--YHLLKDLBEGIQTLMGRLD 76

## RESULT 15

US-10-153-207-2  
; Sequence 2, Application US/10153207  
; Publication No. US20030153003A1  
; GENERAL INFORMATION:  
; APPLICANT: James A. Wells  
; APPLICANT: Brian C. Cunningham  
; TITLE OF INVENTION: GROWTH HORMONE VARIANTS  
; FILE REFERENCE: 669.12-US-C7  
; CURRENT APPLICATION NUMBER: US/10/153,207  
; CURRENT FILING DATE: 2002-05-22  
; PRIOR APPLICATION NUMBER: 08/479,884  
; PRIOR FILING DATE: 1995-06-07  
; PRIOR APPLICATION NUMBER: 08/190,723  
; PRIOR FILING DATE: 1994-02-02  
; PRIOR APPLICATION NUMBER: 07/960,227  
; PRIOR FILING DATE: 1992-10-13  
; PRIOR APPLICATION NUMBER: 07/875,204  
; PRIOR FILING DATE: 1992-04-27  
; PRIOR APPLICATION NUMBER: 07/428,066  
; PRIOR FILING DATE: 1989-10-26  
; PRIOR APPLICATION NUMBER: 07/264,611  
; PRIOR FILING DATE: 1988-10-28  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 191  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-10-153-207-2

Query Match 32.5%; Score 49; DB 12; Length 191;  
Best Local Similarity 48.3%; Pred. No. 23;  
Matches 14; Conservative 3; Mismatches 10; Indels 2; Gaps 1;

QY 2 TSDSDPMQOLLKMFSEIMQSLFGDGDG 30  
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Db 105 TSDSD--YHLLKDLBEGIQTLMGRLD 131

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(without alignments)  
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Title: US-09-412-100-31\_COPY\_190\_294

Perfect score: 536

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/prodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	341	1	US-08-062-024B-5
2	536	100.0	341	1	US-08-891-254-5
3	536	100.0	341	2	US-08-756-407-5
4	536	100.0	341	2	US-08-819-539-5
5	536	100.0	341	2	US-09-030-270A-5
6	536	100.0	341	3	US-08-984-207-5
7	536	100.0	341	3	US-09-013-587-5
8	536	100.0	341	4	US-09-086-118-25
9	536	100.0	341	5	PCT-US94-05014-5
10	536	100.0	341	5	PCT-US96-08819-5
11	102	19.0	328	1	US-08-229-287-4
12	99	18.5	2763	3	US-08-496-944-2
13	90	16.8	447	3	US-09-120-927-2
14	89.5	16.7	674	1	US-08-317-522A-3
15	89.5	16.7	674	1	US-08-439-818A-3
16	89.5	16.7	674	2	US-08-751-965-3
17	89.5	16.7	674	2	US-08-738-975-3
18	89.5	16.7	674	2	US-08-728-626-3
19	89.5	16.7	674	3	US-08-808-599A-3
20	89.5	16.7	749	1	US-08-317-522A-2
21	89.5	16.7	749	1	US-08-439-818A-2
22	89.5	16.7	749	2	US-08-751-965-2
23	89.5	16.7	749	2	US-08-738-975-2
24	89.5	16.7	749	2	US-08-728-626-2
25	89.5	16.7	749	3	US-08-808-599A-2
26	88	16.4	259	4	US-09-436-434-2
27	86.5	16.1	1160	3	US-08-808-599A-24

28	84	15.7	1415	4	US-09-252-991A-26438	Sequence 26438, A
29	83	15.5	424	3	US-09-120-817-2	Sequence 2, Appli
30	83	15.5	460	4	US-09-056-556-184	Sequence 184, App
31	83	15.5	460	4	US-09-072-596-179	Sequence 179, App
32	82.5	15.4	870	2	US-09-010-928B-2	Sequence 2, Appli
33	82	15.3	199	4	US-09-328-352-7802	Sequence 7802, Ap
34	81.5	15.2	479	3	US-09-177-349-3	Sequence 3, Appli
35	81	15.1	503	3	US-08-845-258-52	Sequence 52, Appl
36	81	15.1	503	3	US-09-528-784A-52	Sequence 52, Appl
37	81	15.1	503	4	US-09-569-098A-52	Sequence 52, Appl
38	81	15.1	503	4	US-09-528-784A-85	Sequence 85, Appl
39	81	15.1	666	4	US-09-569-098A-85	Sequence 85, Appl
40	81	15.1	729	4	US-09-252-991A-32535	Sequence 32535, A
41	81	15.1	1132	4	US-09-528-784A-87	Sequence 87, Appl
42	81	15.1	1132	4	US-09-569-098A-87	Sequence 87, Appl
43	80	14.9	276	3	US-08-506-553C-26	Sequence 26, Appl
44	80	14.9	344	1	US-08-891-254-7	Sequence 7, Appli
45	80	14.9	344	1	US-08-891-254-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1  
US-08-062-024B-5  
; Sequence 5, Application US/08062024B  
; Patent No. 5708139  
; GENERAL INFORMATION:  
; APPLICANT: Alan Collmer and Sheng-Yang He  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: Macintosh  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: Microsoft Word 4.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/062,024B  
; FILING DATE: May 17th 1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: George M. Yahwak  
; REGISTRATION NUMBER: 26,824  
; REFERENCE/DOCKET NUMBER: CRF D-1425  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (203)268-1951  
; TELEFAX: (203)268-1951  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-062-024B-5

Query Match 100.0%; Score 536; DB 1; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	DIIGQOLGNQSDAGSLAGTGGGLGTPSSFNNSVMGDPLDANTGPGDSNGTRGEAGQ	60
Db	190	DIIGQOLGNQSDAGSLAGTGGGLGTPSSFNNSVMGDPLDANTGPGDSNGTRGEAGQ	249
Qy	61	LIGELIDRLGQSLVAGGGGTGTPVTGPTGTSANGGSAQDLQDL	105

Db 250 LIGELIDRLGLOSLVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

## RESULT 2

US-08-891-254-5

; Sequence 5, Application US/08891254

; Patent No. 5776889

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: Hypersensitive Response

; TITLE OF INVENTION: Induced Resistance In Plants

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/891,254

; FILING DATE: 10-JUL-1997

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/475,775

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 14603/10050

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 5:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 341 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-891-254-5

Query Match 100.0%; Score 536; DB 1; Length 341;

Best Local Similarity 100.0%; Pred. No. 3e-48;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

QY 61 LIGELIDRLGLOSLVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 250 LIGELIDRLGLOSLVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

## RESULT 3

US-08-756-407-5

; Sequence 5, Application US/08756407

; Patent No. 5858786

; GENERAL INFORMATION:

; APPLICANT: Alan Collmer and Sheng-Yang He

; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene

; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

STATE: Connecticut

COUNTRY: USA

ZIP: 06611

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: Macintosh

OPERATING SYSTEM: MS-DOS

SOFTWARE: Microsoft Word 4.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/756,407

FILING DATE: 27-NOV-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 062,024

FILING DATE: 17-MAY-1993

ATTORNEY/AGENT INFORMATION:

NAME: George M. Yahwak

REGISTRATION NUMBER: 26,824

REFERENCE/DOCKET NUMBER: CRF D-1425

TELECOMMUNICATION INFORMATION:

TELEPHONE: (203)268-1951

TELEFAX: (203)268-1951

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 341 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-756-407-5

Query Match 100.0%; Score 536; DB 2; Length 341;

Best Local Similarity 100.0%; Pred. No. 3e-48;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

QY 61 LIGELIDRLGLOSLVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105

Db 250 LIGELIDRLGLOSLVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

## RESULT 4

US-08-819-539-5

; Sequence 5, Application US/08819539

; Patent No. 5859324

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: Hypersensitive Response

; TITLE OF INVENTION: Induced Resistance In Plants

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/819,539

; FILING DATE: 17-MAR-1997

; CLASSIFICATION: 800

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/475,775

; FILING DATE:

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;
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-819-539-5

Query Match 100.0%; Score 536; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 6
US-08-984-207-5
; Sequence 5, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-984-207-5

Query Match 100.0%; Score 536; DB 3; Length 341;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 60
Db 190 DIIGQQLGNQSDAGSLAGTGGGLGTPSSFSNNSSVMGDPPLIDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

US-09-030-270A-5
; Sequence 5, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 341 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-09-030-270A-5

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RESULT 7  
US-09-013-587-5  
; Sequence 5, Application US/09013587  
; Patent No. 6277814  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 341 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-5

Query Match 100.0%; Score 536; DB 3; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 8  
US-09-086-118-25  
; Sequence 25, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Lady, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9  
PCT-US94-05014-5  
; Sequence 5, Application PC/TUS9405014  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 10  
US-09-086-118-25  
; Sequence 25, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Lady, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 11  
US-09-086-118-25  
; Sequence 25, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Lady, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051

CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 341 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-25

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9  
PCT-US94-05014-5  
; Sequence 5, Application PC/TUS9405014  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9  
PCT-US94-05014-5  
; Sequence 5, Application PC/TUS9405014  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9  
PCT-US94-05014-5  
; Sequence 5, Application PC/TUS9405014  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

Query Match 100.0%; Score 536; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 60  
Db 190 DIIQQQLGNQSDAGSLAGTGGGLGTPSPFSNNSSVMGDPDLDANTGPGDSGNTRGEAGQ 249

QY 61 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 105  
Db 250 LIGELIDRLQSLVAGGLGTPVNTPTGTSTANGGQSAQDLQLL 294

RESULT 9  
PCT-US94-05014-5  
; Sequence 5, Application PC/TUS9405014  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05014  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1425  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (203)268-1951  
TELEFAX: (203)268-1951  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 341 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
PCT-US94-05014-5

Query Match 100.0%; Score 536; DB 5; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQOSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105  
|||||  
DB 190 DIIGQQLGNQOSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 249  
|||||

QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105  
|||||  
DB 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294  
|||||

RESULT 10  
PCT-US96-08819-5  
Sequence 5, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 341 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-5

Query Match 100.0%; Score 536; DB 5; Length 341;  
Best Local Similarity 100.0%; Pred. No. 3e-48;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQOSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105  
|||||

Db 190 DIIGQQLGNQOSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 249  
QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105  
|||||  
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294  
|||||

RESULT 11  
US-08-229-287-4  
Sequence 4, Application US/08229287  
Patent No. 5530193  
GENERAL INFORMATION:  
APPLICANT: Clark Jr., John M.  
APPLICANT: Jilka, Joseph M.  
APPLICANT: Murty, Lynn E.  
APPLICANT: Scarafia, Liliana E.  
TITLE OF INVENTION: VIRUS RESISTANT CORN PLANTS  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sandoz Agro, Inc.  
STREET: 975 California Avenue  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/229,287  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/067,257  
FILING DATE: 25-MAY-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/817,922  
FILING DATE: 08-JAN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Marcus-Wyner, Lynn  
REGISTRATION NUMBER: 34,969  
REFERENCE/DOCKET NUMBER: 135-1084/XCC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/354-3588  
TELEFAX: 415/857-1125  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 328 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-229-287-4

Query Match 19.0%; Score 102; DB 1; Length 328;  
Best Local Similarity 34.8%; Pred. No. 0.0053;  
Matches 32; Conservative 7; Mismatches 25; Indels 28; Gaps 4;

QY 12 SDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 102  
|||||  
Db 31 SGAGSGGTGAGTGVGTG-----GQARTSGGTGTG-SGATGGQ----- 66  
|||||

QY 72 SVLAGGGLGT-PVNTPTGTSGANGGSAQDLQ 102  
:|||||  
Db 67 ---SGSGSGTEQVNTGSGAGTGNATGGQDRD 95  
:|||||

RESULT 12  
US-08-496-944-2  
Sequence 2, Application US/08496944  
Patent No. 6040496  
GENERAL INFORMATION:

APPLICANT: Law, Marcus D  
APPLICANT: Dietz, Jon M  
TITLE OF INVENTION: Use of Translationally altered RNA to  
TITLE OF INVENTION: Confer Resistance to Maize Dwarf Mosaic Virus and Other  
TITLE OF INVENTION: Monocotyledonous Plant Viruses  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CIBA-Geigy Corporation  
STREET: 7 Skyline Drive  
CITY: Hawthorne  
STATE: NY  
COUNTRY: USA  
ZIP: 10532  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30B  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/496,944  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Elmer, James Scott  
REGISTRATION NUMBER: 36,129  
REFERENCE/DOCKET NUMBER: CGC 1814  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2763 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-496-944-2

Query Match 18.5%; Score 99; DB 3; Length 2763;  
Best Local Similarity 34.8%; Pred. No. 0.15;  
Matches 32; Conservative 7; Mismatches 25; Indels 28; Gaps 4;

QY 12 SDAGSLAGTGGGGLGTSSFSNNSVGMGDLPLDANTGPGSGNTRGAGQLGIDRGLQ 71  
Db 2466 SGAGSGSDTGAGGVGTGQARTGS-----GTGTG-SGATGGQ----- 2501  
QY 72 SVLAGGGLGT-PVNTPTGT-SANGGQSAQDL 102  
Db 2502 ---SGSGSGTEQVNTGSAGTNATGGQRDRVD 2530

RESULT 13  
US-09-120-927-2  
Sequence 2, Application US/09120927  
Patent No. 6262018  
GENERAL INFORMATION:  
APPLICANT: Kim, Jihyun Francis  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/120,927  
FILING DATE:  
CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/055,108  
FILING DATE: 06-AUG-1977  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1581  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 447 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-120-927-2

Query Match 16.8%; Score 90; DB 3; Length 447;  
Best Local Similarity 33.0%; Pred. No. 0.14;  
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;  
QY 8 GNOQS----DAGSLAGTGGGLG-TPSSFSNNS-SVMGDLPLDANTGPGSGNTRGAG-- 59  
Db 72 GNDQTTGVGNAGLNGRKGTAGTTQSDSQNMLSEKNGNGLDOAITPDQGG--GQIGDN 129  
QY 60 -----QLIGELIDRGLQSVLGGGLGTPVNTPTGT-SANGGQSAQDL 101  
Db 130 PLLKAMKLIIARMMDGQSDQF---GQPGTGNNSSASGTSSTSGGSPFNDL 175

RESULT 14  
US-08-317-522A-3  
Sequence 3, Application US/08317522A  
Patent No. 5599918  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Michiko N.  
TITLE OF INVENTION: Trophinin and Trophinin-Assisting  
TITLE OF INVENTION: Proteins  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/317,522A  
FILING DATE: 04-OCT-1994  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LA 9991  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 674 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
US-08-317-522A-3  
Query Match 16.7%; Score 89.5; DB 1; Length 674;  
Best Local Similarity 33.3%; Pred. No. 0.26;

Matches	34; Conservative	10; Mismatches	37; Indels	21; Gaps
Qy	7 LGNQSDAGSLA---GTGGGLGTPSSFNNSVNGDPLIDANTCPDQSG--NTRGEAGQL	61		
Db	521 LGTSAGFGGGLVTSDFGFGGLGTNASP---GSLTG-----TSAGFSGGLSTSDGFGR	570		
Qy	62 IGLIDRLGQSLVAGGGLGTPVNT-----PQTGTSANGGQSA	98		
Db	571 PNASFDRGLGTII--GFGSGGNTSTGFTGEPSTSTGFSGSPSS	611		

**RESULT 15**

US-08-439-818A-3  
; Sequence 3, Application US/08439818A  
; Patent No. 5654145  
; GENERAL INFORMATION:  
; APPLICANT: Fukuda, Michiko N.  
; TITLE OF INVENTION: Trophinin and Trophinin-Assisting  
; TITLE OF INVENTION: Proteins  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell and Flores  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: US/08/439,818A  
; APPLICATION NUMBER: US/08/439,818A  
; FILING DATE: 12-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/317,522  
; FILING DATE: 04-OCT-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-LA 1563  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 674 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
US-08-439-818A-3

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Query Match      16.7%; Score 89.5; DB 1; Length 674;
Best Local Similarity 33.3%; Pred. No. 0.26;
Matches 34; Conservative 10; Mismatches 37; Indels 21; Gaps 6;

Qy 7 LGNOQSDAGSLA---GTGGGLGTSPSSNNSSVNGDPLIDANTGFGDSG--NTRGEAGQL 61
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 521 LGTSAGFGGGLVTSDFGGGLGTNASP-----GSTLG-----TSAGSFGGLSTSDGFGSR 570

Qy 62 IGEILDRGLQSVLAGGLGTPVNT-----POTGTSANGGQSA 98
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 571 PNASFDRGLSTII-IFGSGSNSTSTGFTGEPSTSTGFCFSGPSS 611

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Search completed: January 20, 2004, 14:57:59  
Job time : 13.4024 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 2.36236 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_137\_156  
Perfect score: 99  
Sequence: 1 STSQNDSTSGTSDSSD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5,

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
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2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	99	100.0	385	1	US-08-891-254-3
2	99	100.0	385	2	US-08-819-539-3
3	99	100.0	385	5	PCT-US93-06243-2
4	99	100.0	385	5	PCT-US96-08819-3
5	99	100.0	403	2	US-08-200-724A-2
6	99	100.0	403	2	US-09-030-270A-3
7	99	100.0	403	3	US-08-851-376A-2
8	99	100.0	403	3	US-08-984-207-3
9	99	100.0	403	3	US-09-013-587-3
10	99	100.0	403	4	US-09-086-118-23
11	57	57.6	669	4	US-09-107-532A-6532
12	50	50.5	930	4	US-08-134-001C-5314
13	48	48.5	1187	1	US-08-320-559-28
14	48	48.5	1187	3	PCT-US94-04496-28
15	48	48.5	1187	5	PCT-US94-04496-28
16	48	48.5	1210	1	US-08-320-559-26
17	48	48.5	1210	3	US-08-545-860D-26
18	48	48.5	1210	5	PCT-US94-04496-26
19	47	47.5	1233	4	US-09-996-243-375
20	47	47.5	823	4	US-09-107-532A-5667
21	47	47.5	1258	2	US-08-310-912A-107
22	47	47.5	1258	3	US-09-301-085-107
23	47	47.5	1294	3	US-08-930-996A-10
24	46.5	47.0	506	2	US-08-820-170A-19
25	46.5	47.0	506	3	US-09-055-699-19
26	46.5	47.0	506	3	US-09-273-565-19
27	46.5	47.0	506	4	US-09-565-538-19

Sequence 19, Appl  
Sequence 19, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 31, Appl  
Patent No. 5164481  
Sequence 3, Appl  
Sequence 8, Appl  
Sequence 8, Appl  
Sequence 4, Appl  
Sequence 463, Ap  
Sequence 12, Appl  
Sequence 424, App  
Sequence 422, App  
Sequence 8, Appl  
Sequence 90, Appl  
Sequence 92, Appl  
Sequence 132, App

28	46.5	47.0	506	4	US-09-661-468-19
29	46.5	47.0	506	4	US-09-976-165-19
30	46.5	47.0	933	3	US-08-293-728-2
31	46.5	47.0	933	3	US-09-421-868-2
32	46	46.5	196	4	US-09-149-476-331
33	46	46.5	277	6	5164481-2
34	46	46.5	1063	1	US-08-093-453B-3
35	46	46.5	1063	1	US-08-127-499A-8
36	46	46.5	1063	1	US-08-482-847-8
37	45.5	46.0	361	3	US-09-588-256-4
38	45.5	46.0	2137	4	US-09-134-001C-4463
39	45	45.5	43	4	US-07-757-022B-12
40	45	45.5	59	4	US-09-071-035-424
41	45	45.5	116	4	US-09-071-035-422
42	45	45.5	167	2	US-08-993-228-8
43	45	45.5	192	4	US-07-757-022B-90
44	45	45.5	204	4	US-07-757-022B-92
45	45	45.5	208	4	US-07-757-022B-132

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5166889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Nixon, Hargrave, Devans & Doyle  
; STREET: Clanton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 100.0%; Score 99; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.2e-06;  
Matches 20; Conservative 0; Mismatch 0; Indels 0; Gaps 0;  
QY 1 STSQNDSTSGTSDSSD 20

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Db      137 STSQNDSTSGTSDTSDSSD 156
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RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3
Query Match 100.0%; Score 99; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSQNDSTSGTSDTSDSSD 20
|||||
Db      137 STSQNDSTSGTSDTSDSSD 156
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
Query Match 100.0%; Score 99; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSQNDSTSGTSDTSDSSD 20
|||||
Db      137 STSQNDSTSGTSDTSDSSD 156
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2
Query Match 100.0%; Score 99; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSQNDSTSGTSDTSDSSD 20
|||||
Db      137 STSQNDSTSGTSDTSDSSD 156
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RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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;  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
PCT-US96-08819-3

Query Match 100.0%; Score 99; DB 5; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.2e-06;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSSD 20  
Db 137 STSQNDSTSGTSDTSDSSD 156

## RESULT 5

US-08-200-724A-2

; Sequence 2, Application US/08200724A  
; Patent No. 5849868  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron J.  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/200, 724A  
; FILING DATE: 23-FEB-1994  
; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10030  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 99; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSSD 20  
Db 137 STSQNDSTSGTSDTSDSSD 156

## RESULT 6

US-09-030-270A-3

; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030, 270A  
; FILING DATE:  
; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 99; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSSD 20  
Db 137 STSQNDSTSGTSDTSDSSD 156

## RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A  
; Patent No. 6174717

; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon Peabody LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: NY  
; COUNTRY: U.S.A.  
; ZIP: 14603

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/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/851,376A
/ FILING DATE: 05-MAY-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/200,724
/ FILING DATE: 23-FEB-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/10035
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-08-851-376A-2

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
Db 137 STSQNDSTSGTDTSDSSD 156

RESULT 8
US-08-984-207-3
/ Sequence 3, Application US/08984207
/ Patent No. 6235974
/ GENERAL INFORMATION:
/ APPLICANT: Qiu, Dewen
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
/ TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
/ NUMBER OF SEQUENCES: 10
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
/ STREET: P.O. Box 1051, Clinton Square
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/984,207
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/033,230
/ FILING DATE: 05-DEC-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1201
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
```

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/
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-984-207-3

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
Db 137 STSQNDSTSGTDTSDSSD 156

RESULT 9
US-09-013-587-3
/ Sequence 3, Application US/09013587
/ Patent No. 6277814
/ GENERAL INFORMATION:
/ APPLICANT: Qiu, Dewen
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
/ NUMBER OF SEQUENCES: 10
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
/ STREET: Clinton Square, P.O. Box 1051
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/013,587
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/036,048
/ FILING DATE: 27-JAN-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1501
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-013-587-3

Query Match 100.0%; Score 99; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. NO. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSSD 20
Db 137 STSQNDSTSGTDTSDSSD 156
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RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hartgrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match 100.0%; Score 99; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 20
Db 137 STSQNDSTSGTSDTSDSD 156

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
US-09-107-532A-6532

Query Match 57.6%; Score 57; DB 4; Length 669;
Best Local Similarity 63.2%; Pred. No. 2;
Matches 12; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDSTSGTSDTSDSD 20
Db 534 TSQSDSTDTTSTSDSD 552

RESULT 12
US-09-134-001C-5314
; Sequence 5314, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5314
; LENGTH: 930
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5314

Query Match 50.5%; Score 50; DB 4; Length 930;
Best Local Similarity 61.1%; Pred. No. 28;
Matches 11; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSDSD 18
Db 828 SDSQSDSDTSDSDSDSDS 845
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RESULT 14  
US-08-545-860D-28  
; Sequence 28, Application US/08545860D  
; Patent No. 6040140  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo  
; APPLICANT: Canaan, Eli  
; TITLE OF INVENTION: Diagnostics.

RESULT 15  
PCT-US94-04496-28  
; Sequence 28, Application PC/TUS9404496  
; GENERAL INFORMATION:  
; APPLICANT: Croce, Carlo



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.55956 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_105\_168

Perfect score: 321

Sequence: 1 MLGSLNTLGSKGNNTTST.....DSTSDSDPMQQLKMFSEI 64

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/iaa/PTUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	321	100.0	385	1	US-08-891-254-3
2	321	100.0	385	2	US-08-819-539-3
3	321	100.0	385	5	PCT-US93-06243-2
4	321	100.0	385	5	PCT-US96-08819-3
5	321	100.0	403	2	US-08-200-724A-2
6	321	100.0	403	2	US-09-030-270A-3
7	321	100.0	403	3	US-08-851-376A-2
8	321	100.0	403	3	US-08-984-207-3
9	321	100.0	403	3	US-09-013-587-3
10	321	100.0	403	4	US-09-086-118-23
11	83	25.9	669	4	US-09-107-532A-6532
12	81	25.2	465	4	US-09-328-352-6951
13	77	24.0	344	1	US-08-891-254-7
14	77	24.0	344	2	US-08-819-539-7
15	77	24.0	344	2	US-09-030-270A-7
16	77	24.0	344	3	US-08-984-207-7
17	77	24.0	344	3	US-09-013-587-7
18	77	24.0	344	4	US-09-086-118-27
19	77	24.0	344	5	PCT-US96-08819-7
20	70.5	22.0	683	4	US-09-620-412C-357
21	70.5	22.0	683	4	US-09-598-419-357
22	70.5	22.0	821	4	US-09-556-877-195
23	70.5	22.0	821	4	US-09-620-412C-195
24	70.5	22.0	821	4	US-09-598-419-195
25	70.5	22.0	1776	4	US-09-556-877-179
26	70.5	22.0	1776	4	US-09-620-412C-179
27	70.5	22.0	1776	4	US-09-598-419-179

28	69	21.5	444	1	US-07-881-075-3	Sequence 3, Appli
29	69	21.5	444	1	US-08-120-827-3	Sequence 3, Appli
30	69	21.5	444	1	US-08-478-675-3	Sequence 3, Appli
31	68.5	21.3	763	2	US-08-677-862-2	Sequence 2, Appli
32	68.5	21.3	763	2	US-09-252-571-2	Sequence 2, Appli
33	68.5	21.3	763	3	US-09-434-065-2	Sequence 2, Appli
34	68.5	21.3	763	3	US-08-789-275-4	Sequence 5, Appli
35	68.5	21.3	763	3	US-08-789-275-5	Sequence 4, Appli
36	66.5	20.7	50	1	US-08-178-477B-16	Sequence 16, Appli
37	66.5	20.7	933	3	US-08-293-728-2	Sequence 2, Appli
38	66.5	20.7	933	3	US-09-421-868-2	Sequence 2, Appli
39	66	20.6	516	4	US-09-252-991A-31898	Sequence 31898, A
40	65	20.2	947	4	US-09-418-780A-1	Sequence 1, Appli
41	64.5	20.1	2137	4	US-09-134-001C-4463	Sequence 4463, Ap
42	64	19.9	283	4	US-09-198-452A-424	Sequence 424, App
43	63	19.6	145	3	US-08-808-599A-41	Sequence 41, Appli
44	63	19.6	975	4	US-09-328-352-4764	Sequence 4764, Ap
45	63	19.6	3060	2	US-08-487-826B-14	Sequence 14, Appli

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 100.0%; Score 321; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.1e-30;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MLGSLNTLGSKGNNTTSTTNSPLDQALGINSQNDSDTSGTSDSDSPMQQLK 60

Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164  
QY 61 FSEI 64  
Db 165 FSEI 168

RESULT 2  
US-08-819-539-3  
; Sequence 3, Application US/08819539  
; Patent No. 5859324  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance in Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/819,539  
; FILING DATE: 17-MAR-1997  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-819-539-3

Query Match 100.0%; Score 321; DB 2; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.1e-30;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164  
QY 61 FSEI 64  
Db 165 FSEI 168

RESULT 3  
PCT-US93-06243-2  
; Sequence 2, Application PC/TUS9306243  
; GENERAL INFORMATION:  
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.  
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby  
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants

; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: Macintosh  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: Microsoft Word 4.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/06243  
; FILING DATE: 19930630  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 907,935  
; FILING DATE: 01-JUL-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: George M. Yahwak  
; REGISTRATION NUMBER: 26,824  
; REFERENCE/DOCKET NUMBER: CRF D-1172  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (203)268-1951  
; TELEFAX: (203)268-1951  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
PCT-US93-06243-2  
Query Match 100.0%; Score 321; DB 5; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.1e-30;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTQNDSDTSGTSDSDPMQQLKX 164  
QY 61 FSEI 64  
Db 165 FSEI 168  
RESULT 4  
PCT-US96-08819-3  
; Sequence 3, Application PC/TUS9608819  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/08819  
; FILING DATE:  
; CLASSIFICATION:

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/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/475,775
/ FILING DATE: 07-JUN-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/10051
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 385 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 321; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTQNDDSTSGTDTSDSSDPMQQLK 60
Db 105 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTQNDDSTSGTDTSDSSDPMQQLK 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 5
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/200,724A
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
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/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 321; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTQNDDSTSGTDTSDSSDPMQQLK 60
Db 105 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTQNDDSTSGTDTSDSSDPMQQLK 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 6
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 321; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 105 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTQNDDSTSGTDTSDSSDPMQQLK 164

QY 61 FSEI 64
Db 165 FSEI 168
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Db 165 FSEI 168

## RESULT 7

US-08-851-376A-2  
; Sequence 2, Application US/08851376A  
; Patent No. 6174717

## GENERAL INFORMATION:

APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Bauer, David W.  
APPLICANT: Collmer, Alan  
APPLICANT: He, Sheng-Yang  
APPLICANT: Laby, Ron

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

TITLE OF INVENTION: IN PLANTS

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon Peabody LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: NY

COUNTRY: U.S.A.

ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/851,376A

FILING DATE: 05-MAY-1997

## CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/200,724

FILING DATE: 23-FEB-1994

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/10035

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 321; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 1.1e-30;

Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 60

Db 105 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 164

QY 61 FSEI 64

Db 165 FSEI 168

## RESULT 8

US-08-984-207-3

; Sequence 3, Application US/08984207

; Patent No. 6235974

## GENERAL INFORMATION:

APPLICANT: Qiu, Dewen

APPLICANT: Wei, Zhong-Min

APPLICANT: Beer, Steven V.

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: P.O. Box 1051, Clinton Square

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/984,207

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/033,230

FILING DATE: 05-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1201

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-984-207-3

Query Match 100.0%; Score 321; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 1.1e-30;

Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 60

Db 105 MLGGSNTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSDPMQQLKM 164

QY 61 FSEI 64

Db 165 FSEI 168

## RESULT 9

US-09-013-587-3

; Sequence 3, Application US/09013587

; Patent No. 6277814

## GENERAL INFORMATION:

APPLICANT: Qiu, Dewen

APPLICANT: Wei, Zhong-Min

APPLICANT: Beer, Steven V.

TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 60/036,048
; APPLICATION NUMBER: 27-JAN-1997
; FILING DATE:
; NAME: Goldman, Michael L.
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-013-587-3

Query Match 100.0%; Score 321; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 60
Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
```

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; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-23

Query Match 100.0%; Score 321; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-30;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 60
Db 105 MLGGSINTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 11
US-09-107-532A-6532
; Sequence 6532, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6532:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 669 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...669
; SEQUENCE DESCRIPTION: SEQ ID NO: 6532:
; US-09-107-532A-6532
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Query Match	24.0%;	Score 77;	DB 2;	Length 344;
Best Local Similarity	30.2%;	Pred. No. 0.18;		

Search completed: January 20, 2004, 14:57:55  
Job time : 7.55956 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 10.985 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_76\_168

Perfect score: 475  
Sequence: 1 MGGGGLGGGLGGGGGLG.....DSTSDSDPMQQLKMFSEI 93

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: \*  
1: /cgn2\_6/prodata/1/iaa/5A COMB.pcp.\*  
2: /cgn2\_6/prodata/1/iaa/5B COMB.pcp.\*  
3: /cgn2\_6/prodata/1/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/prodata/1/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/prodata/1/iaa/PCTUS COMB.pcp.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	475	100.0	385	1	US-08-891-254-3
2	475	100.0	385	2	US-08-819-539-3
3	475	100.0	385	5	PCT-US93-06243-2
4	475	100.0	385	5	PCT-US96-08819-3
5	475	100.0	403	2	US-08-200-724A-2
6	475	100.0	403	2	US-09-030-270A-3
7	475	100.0	403	3	US-08-851-376A-2
8	475	100.0	403	3	US-08-984-207-3
9	475	100.0	403	3	US-09-013-587-3
10	475	100.0	403	4	US-09-086-118-23
11	104	21.9	344	1	US-08-891-254-7
12	104	21.9	344	2	US-08-819-539-7
13	104	21.9	344	2	US-09-030-270A-7
14	104	21.9	344	3	US-08-984-207-7
15	104	21.9	344	3	US-09-013-587-7
16	104	21.9	344	4	US-09-086-118-27
17	104	21.9	344	5	PCT-US96-08819-7
18	102.5	21.6	647	2	US-08-770-761A-8
19	102.5	21.6	705	2	US-08-770-761A-7
20	101.5	21.4	674	1	US-08-317-522A-3
21	101.5	21.4	674	1	US-08-439-818A-3
22	101.5	21.4	674	2	US-08-751-965-3
23	101.5	21.4	674	2	US-08-738-975-3
24	101.5	21.4	674	2	US-08-728-626-3
25	101.5	21.4	674	3	US-08-808-599A-3
26	101.5	21.4	749	1	US-08-317-522A-2
27	101.5	21.4	749	1	US-08-439-818A-2

28	101.5	21.4	749	2	US-08-751-965-2	Sequence 2, Appli
29	101.5	21.4	749	2	US-08-738-975-2	Sequence 2, Appli
30	101.5	21.4	749	2	US-08-728-626-2	Sequence 2, Appli
31	101.5	21.4	749	3	US-08-808-599A-2	Sequence 2, Appli
32	100	21.1	738	3	US-08-864-038A-3	Sequence 3, Appli
33	97.5	20.5	975	4	US-09-328-352-4764	Sequence 4764, Ap
34	96.5	20.3	141	4	US-09-252-991A-23427	Sequence 23427, A
35	96.5	20.3	268	2	US-08-835-099A-9	Sequence 9, Appli
36	96.5	20.3	268	3	US-09-157-349-9	Sequence 9, Appli
37	96	20.2	126	4	US-09-328-352-8009	Sequence 8009, Ap
38	96	20.2	588	1	US-08-391-615-5	Sequence 5, Appli
39	95.5	20.1	266	3	US-09-032-523-7	Sequence 7, Appli
40	93.5	19.7	116	3	US-08-963-168C-13	Sequence 13, Appli
41	93.5	19.7	136	3	US-08-963-168C-6	Sequence 6, Appli
42	92.5	19.5	1160	3	US-08-808-599A-24	Sequence 24, Appli
43	92	19.4	159	4	US-09-252-991A-22914	Sequence 22914, A
44	91.5	19.3	199	4	US-09-328-352-7802	Sequence 7802, Ap
45	91.5	19.3	208	4	US-09-252-991A-27661	Sequence 27661, A

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 100.0%; Score 475; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 9.2e-41;  
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGGGGLGGGLGGGGGLGSLNLDMLGSLNLTGSKGNNNTTSTTNSPLDQALGI 60

Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135  
QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93  
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 2

US-08-819-539-3  
; Sequence 3, Application US/08819539  
; Patent No. 5859324  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/819,539  
; FILING DATE: 17-MAR-1997  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-819-539-3

Query Match 100.0%; Score 475; DB 2; Length 385;  
Best Local Similarity 100.0%; Pred. No. 9.2e-41;  
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 60  
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135  
QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93  
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 3

PCT-US93-06243-2  
; Sequence 2, Application PC/TUS9306243  
; GENERAL INFORMATION:  
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.  
; APPLICANT: Beer, Alan Collier, Sheng-Yang He, and Ron J. Laby  
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants

; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yahwak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: Macintosh  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: Microsoft Word 4.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/06243  
; FILING DATE: 19930630  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 907,935  
; FILING DATE: 01-JUL-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: George M. Yahwak  
; REGISTRATION NUMBER: 26,824  
; REFERENCE/DOCKET NUMBER: CRF D-1172  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (203)268-1951  
; TELEFAX: (203)268-1951  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; PCT-US93-06243-2  
Query Match 100.0%; Score 475; DB 5; Length 385;  
Best Local Similarity 100.0%; Pred. No. 9.2e-41;  
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 60  
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGLSLNTLGSKGNNTTSTNSPLDQALGI 135  
QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93  
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168  
RESULT 4  
PCT-US96-08819-3  
; Sequence 3, Application PC/TUS9608819  
; GENERAL INFORMATION:  
; APPLICANT: Cornell Research Foundation, Inc.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/08819  
; FILING DATE:  
; CLASSIFICATION:

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 100.0%; Score 475; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 168

RESULT 5
US-08-200-724A-2
; Sequence 2, Application US/08200724A
; Patent No. 5849868
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Beer, Steven V.
; APPLICANT: Collmer, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron J.
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 23-FEB-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid

Query Match 100.0%; Score 475; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 9.2e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 168

RESULT 6
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-3

Query Match 100.0%; Score 475; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 168

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-200-724A-2

Query Match 100.0%; Score 475; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 60
DB 76 MCGGLGGGLGNGLGGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNSPLDQALGI 135
QY 61 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 93
DB 136 NSTSQNDSTSGTSDTSDDSDPMQQLKMFSEI 168
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Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

## RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A

; Patent No. 6174717

; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Bauer, David W.

; APPLICANT: Collmer, Alan

; APPLICANT: He, Sheng-Yang

; APPLICANT: Laby, Ron

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

; TITLE OF INVENTION: IN PLANTS

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon Peabody LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: NY

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/851,376A

; FILING DATE: 05-MAY-1997

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/200,724

; FILING DATE: 23-FEB-1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/10035

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 475; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 9.7e-41;

Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 60

Db 76 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93

Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

## RESULT 8

US-08-984-207-3

; Sequence 3, Application US/08984207

; Patent No. 6235974

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED

; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: P.O. Box 1051, Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/984,207

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/033,230

; FILING DATE: 05-DEC-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1201

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-984-207-3

Query Match 100.0%; Score 475; DB 3; Length 403;

Best Local Similarity 100.0%; Pred. No. 9.7e-41;

Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 60

Db 76 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 93

Db 136 NSTSQNDSTSGTDSSTSDSDPMQQLKMFSEI 168

## RESULT 9

US-09-013-587-3

; Sequence 3, Application US/09013587

; Patent No. 6277814

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

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/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/013,587
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION NUMBER: US 60/036,048
/ FILING DATE: 27-JAN-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1501
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-09-013-587-3

Query Match      100.0%; Score 475; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLGNGLGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGGLGNGLGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 10
US-09-086-118-23
; Sequence 23, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
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/
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-09-086-118-23

Query Match      100.0%; Score 475; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 9.7e-41;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLGNGLGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGGLGNGLGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTSDTSDSSDPMQQLKMFSEI 168

RESULT 11
US-08-891-254-7
; Sequence 7, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
/
US-08-891-254-7

Query Match      21.9%; Score 104; DB 1; Length 344;
Best Local Similarity 31.2%; Pred. No. 0.0048;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

QY 2 GGGGLG-GGLGNGLGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
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Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAVGV 228  
QY 61 NSTSQNDSTSGTSDTSDSDPQQLKMFSEI 93  
Db 229 NGANGADD---GSEDQGLTGVQLKMLKLNAL 258

RESULT 12  
US-08-819-539-7  
; Sequence 7, Application US/08819539  
; Patent No. 5859324  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/819,539  
; FILING DATE: 17-MAR-1997  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 344 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-819-539-7

Query Match 21.9%; Score 104; DB 2; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.0048;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;  
QY 2 GCGLG-GGLGNGLGGGGLGEGLSNALNDMLGSLNTLGSKGNNNTTSTNSPLDQALGI 60  
Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAVGV 228  
QY 61 NSTSQNDSTSGTSDTSDSDPQQLKMFSEI 93  
Db 229 NGANGADD---GSEDQGLTGVQLKMLKLNAL 258

RESULT 13  
US-09-030-270A-7  
; Sequence 7, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
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; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 344 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-030-270A-7

Query Match 21.9%; Score 104; DB 2; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.0048;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;  
QY 2 GCGLG-GGLGNGLGGGGLGEGLSNALNDMLGSLNTLGSKGNNNTTSTNSPLDQALGI 60  
Db 175 GCGAGGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGGNGVNGQANGPQNAVGV 228  
QY 61 NSTSQNDSTSGTSDTSDSDPQQLKMFSEI 93  
Db 229 NGANGADD---GSEDQGLTGVQLKMLKLNAL 258

RESULT 14  
US-08-984-207-7  
; Sequence 7, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: US 60/033,230  
APPLICATION NUMBER: 30,727  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-7

Query Match 21.9%; Score 104; DB 3; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.0048;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;  
QY 2 GGGLG-GGLGNGLGSGGLGEGLSNALNDMLGGSNLTLGSKGNNTTSTNSPLDQALGI 60  
DB 175 GGGAGAGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGNGVNGNQANGPQNAVGV 228  
QY 61 NSTSQNDSTSGTSDSSDPMQQLKMFSEI 93  
DB 229 NGANGADD---GSEDQGGLTGVLQKLMKILNAL 258

RESULT 15  
US-09-013-587-7  
Sequence 7, Application US/09013587  
Patent No. 627814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-7  
Query Match 21.9%; Score 104; DB 3; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.0048;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;  
QY 2 GGGLG-GGLGNGLGSGGLGEGLSNALNDMLGGSNLTLGSKGNNTTSTNSPLDQALGI 60  
DB 175 GGGAGAGAGGGVGGAGG-ADGSGA-----GGAGGANGADGGNGVNGNQANGPQNAVGV 228  
QY 61 NSTSQNDSTSGTSDSSDPMQQLKMFSEI 93  
DB 229 NGANGADD---GSEDQGGLTGVLQKLMKILNAL 258  
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OM protein - protein search, using sw model

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358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_121\_150

Perfect score: 150

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Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	150	100.0	385	5	PCT-US93-06243-2
4	150	100.0	385	5	PCT-US96-08819-3
5	150	100.0	403	2	US-08-300-724A-2
6	150	100.0	403	2	US-09-030-270A-3
7	150	100.0	403	3	US-08-851-376A-2
8	150	100.0	403	3	US-08-984-207-3
9	150	100.0	403	3	US-09-013-587-3
10	150	100.0	403	4	US-09-086-118-23
11	55.5	37.0	1402	4	US-09-125-635-12
12	53	35.3	444	1	US-07-881-075-3
13	53	35.3	444	1	US-08-120-827-3
14	53	35.3	444	1	US-08-478-675-3
15	52	34.7	683	4	US-09-620-412C-357
16	52	34.7	683	4	US-09-598-419-357
17	52	34.7	821	4	US-09-556-877-195
18	52	34.7	821	4	US-09-620-412C-195
19	52	34.7	821	4	US-09-598-419-195
20	52	34.7	1776	4	US-09-556-877-179
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23	51.5	34.3	458	3	US-09-352-159-9
24	51.5	34.3	458	3	US-09-352-168-9
25	49.5	33.0	951	4	US-09-125-635-8
26	49.5	33.0	1420	4	US-09-125-635-4
27	49	32.7	1481	2	US-08-616-844-40

28	49	32.7	1481	2	US-08-599-654-40	Sequence 40, Appl
29	49	32.7	1481	3	US-08-944-868A-40	Sequence 40, Appl
30	49	32.7	1481	3	US-08-944-423A-40	Sequence 40, Appl
31	49	32.7	1481	3	US-08-944-496-40	Sequence 40, Appl
32	48.5	32.3	669	4	US-09-107-532A-6532	Sequence 6532, Ap
33	48	32.0	553	4	US-09-242-913B-13	Sequence 13, Appl
34	48	32.0	697	4	US-08-816-177-2	Sequence 2, Appl
35	48	32.0	701	4	US-09-134-001C-3327	Sequence 3327, Ap
36	47	31.3	50	1	US-08-178-477B-16	Sequence 16, Appl
37	47	31.3	145	3	US-08-808-599A-41	Sequence 41, Appl
38	47	31.3	933	3	US-08-293-728-2	Sequence 2, Appl
39	47	31.3	933	3	US-09-421-868-2	Sequence 2, Appl
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41	46	30.7	600	4	US-09-134-001C-5293	Sequence 5293, Ap
42	45.5	30.3	232	4	US-09-252-991A-29073	Sequence 29073, A
43	45.5	30.3	245	4	US-09-252-991A-22586	Sequence 22586, A
44	45.5	30.3	685	3	US-08-872-855-2	Sequence 2, Appl
45	45.5	30.3	1005	4	US-09-206-942-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 100.0%; Score 150; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 8.2e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30

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Db      121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150
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RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3
Query Match 100.0%; Score 150; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTSTNSPLDQALGINSTQNDDSTSGTDS 30
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Db      121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150
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RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collier, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2
Query Match 100.0%; Score 150; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 8.2e-14;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150
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RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
PCT-US96-08819-3

Query Match 100.0%; Score 150; DB 5; Length 385;  
Best Local Similarity 100.0%; Pred. No. 8.2e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTQNDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150

## RESULT 5

US-08-200-724A-2

; Sequence 2, Application US/08200724A

; Patent No. 5849868

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Bauer, David W.

; APPLICANT: Beer, Steven V.

; APPLICANT: Collmer, Alan

; APPLICANT: He, Sheng-Yang

; APPLICANT: Laby, Ron J.

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans &amp; Doyle

; STREET: Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/200,724A

; FILING DATE: 23-FEB-1994

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/10030

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 150; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTQNDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150

## RESULT 6

US-09-030-270A-3

; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/039,226

; FILING DATE: 28-FEB-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1521

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 150; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTQNDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTQNDDSTSGTDS 150

## RESULT 7

US-08-851-376A-2

; Sequence 2, Application US/08851376A

; Patent No. 6174717

; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Bauer, David W.

; APPLICANT: Collmer, Alan

; APPLICANT: He, Sheng-Yang

; APPLICANT: Laby, Ron

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon Peabody LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: NY

; COUNTRY: U.S.A.

; ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: 05-MAY-1997  
APPLICATION NUMBER: US/08/851,376A  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/200,724  
FILING DATE: 23-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10035  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 150; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDSTSGTDS 150

RESULT 8  
US-08-984-207-3  
Sequence 3, Application US/08984207  
Patent No. 6235974  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: US/08/984,207  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 150; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDSTSGTDS 150

RESULT 9  
US-09-013-587-3  
Sequence 3, Application US/09013587  
Patent No. 6277814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: US/09/013,587  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 150; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDSTSGTDS 150

RESULT 10  
US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-23  
  
Query Match 100.0%; Score 150; DB 4; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.7e-14;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 TTSTNSPLDQALGINSTQNDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTQNDSTSGTDS 150

; ORGANISM: Mus musculus  
US-09-125-635-12  
Query Match 37.0%; Score 55.5; DB 4; Length 1402;  
Best Local Similarity 44.1%; Pred. No. 16;  
Matches 15; Conservative 4; Mismatches 10; Indels 5; Gaps 1;  
  
QY 2 TTSTNSPL-----DQALGINSTQNDSTSGTDS 30  
Db 627 SSLTNSPLDPNCKDSSVSVTSPSGVSSSTSGTGS 660  
  
RESULT 12  
US-07-881-075-3  
; Sequence 3, Application US/07881075  
; Patent No. 5444149  
; GENERAL INFORMATION:  
; APPLICANT: KEENE, JACK D.  
; APPLICANT: KING, PETER H.  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS USEFUL IN THE RECOGNITION, BINDING AND EXPRESSION OF RIBONUCLEIC ACIDS  
; TITLE OF INVENTION: RECOGNITION, BINDING AND EXPRESSION OF RIBONUCLEIC ACIDS  
; TITLE OF INVENTION: INVOLVED IN CELL GROWTH, NEOPLASIA AND IMMUNOREGULATION  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,  
; STREET: 1755 Jefferson Davis Highway, Fourth Floor  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/881,075  
; FILING DATE: 19920511  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Oblon, No. 5444149man F.  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 714-154-0  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)521-4500  
; TELEFAX: (703)486-2347  
; TELEX: 248855 OPAT UR  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 444 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
US-07-881-075-3  
  
Query Match 35.3%; Score 53; DB 1; Length 444;  
Best Local Similarity 35.7%; Pred. No. 9;  
Matches 10; Conservative 9; Mismatches 9; Indels 0; Gaps 0;  
  
QY 3 STTNSPLDQALGINSTQNDSTSGTDS 30  
Db 63 SITNAVQQTATNNAASNNNNNNNTNN 90  
  
RESULT 13  
US-08-120-827-3  
; Sequence 3, Application US/08120827  
; Patent No. 5525495  
; GENERAL INFORMATION:  
; APPLICANT: KEENE, JACK D.  
; APPLICANT: KING, PETER H.



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OM protein - protein search, using sw model

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4	151	100.0	385	5 PCT-US96-08819-3	Sequence 3, Appli
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6	151	100.0	403	2 US-09-030-270A-3	Sequence 3, Appli
7	151	100.0	403	3 US-08-851-376A-2	Sequence 2, Appli
8	151	100.0	403	3 US-08-984-207-3	Sequence 3, Appli
9	151	100.0	403	3 US-09-013-587-3	Sequence 3, Appli
10	151	100.0	403	4 US-09-086-118-23	Sequence 23, Appli
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12	48	31.8	283	4 US-09-198-452A-424	Sequence 424, Appli
13	46.5	30.8	257	4 US-09-252-991A-27607	Sequence 27607, A
14	46	30.5	690	4 US-09-252-991A-29429	Sequence 29429, A
15	45	29.8	230	4 US-09-252-991A-22064	Sequence 22064, A
16	45	29.8	977	2 US-08-673-789-8	Sequence 8, Appli
17	44	29.1	102	1 US-08-340-203A-12	Sequence 12, Appli
18	44	29.1	102	2 US-08-452-427-12	Sequence 12, Appli
19	44	29.1	102	3 US-09-085-407-12	Sequence 12, Appli
20	44	29.1	103	2 US-08-553-541B-3	Sequence 3, Appli
21	44	29.1	103	3 US-09-268-202-3	Sequence 3, Appli
22	44	29.1	105	4 US-07-145-002B-21	Sequence 21, Appli
23	44	29.1	417	1 US-08-553-703A-2	Sequence 2, Appli
24	44	29.1	417	2 US-09-006-021-2	Sequence 2, Appli
25	43.5	28.8	328	3 US-09-225-244-2	Sequence 2, Appli
26	43.5	28.8	328	3 US-09-417-242-2	Sequence 2, Appli
27	43	28.5	206	4 US-09-328-352-5572	Sequence 5572, Ap

28	43	28.5	338	4	US-09-252-991A-26745	Sequence 26745, A
29	43	28.5	410	4	US-09-252-991A-28759	Sequence 28759, A
30	43	28.5	478	4	US-09-252-991A-32557	Sequence 32557, A
31	43	28.5	761	4	US-09-625-188-14	Sequence 14, Appli
32	43	28.5	794	4	US-09-252-991A-31824	Sequence 31824, A
33	43	28.5	947	4	US-09-418-780A-1	Sequence 1, Appli
34	43	28.5	1133	4	US-09-252-991A-32131	Sequence 32131, A
35	42.5	28.1	315	4	US-09-107-532A-6631	Sequence 6631, Ap
36	42.5	28.1	348	4	US-09-252-991A-30224	Sequence 30224, A
37	42.5	28.1	532	4	US-09-655-270A-3	Sequence 3, Appli
38	42.5	28.1	532	4	US-09-651-941-3	Sequence 3, Appli
39	42.5	28.1	532	4	US-09-955-597-3	Sequence 3, Appli
40	42	27.8	99	4	US-09-107-532A-4727	Sequence 4727, Ap
41	42	27.8	234	4	US-09-328-352-4986	Sequence 4986, Ap
42	42	27.8	292	1	US-08-378-761A-81	Sequence 81, Appli
43	42	27.8	292	1	US-08-485-286-81	Sequence 81, Appli
44	42	27.8	344	1	US-08-891-254-7	Sequence 7, Appli
45	42	27.8	344	2	US-08-819-539-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1  
US-08-891-254-3  
; Sequence 3, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 385 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-891-254-3

Query Match 100.0%; Score 151; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.8e-15;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 STSDSDPMQQLKMFSEIMQSLFGDGDG 30

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Db      150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179
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RESULT 2
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3

Query Match      100.0%; Score 151; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
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Db      150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179
|||||
RESULT 3
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; PCT-US93-06243-2

Query Match      100.0%; Score 151; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.8e-15;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 STSDSDPMQQLKMFSEIMQSLFGDGQDG 30
|||||
Db      150 STSDSDPMQQLKMFSEIMQSLFGDGQDG 179
|||||
RESULT 4
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
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LENGTH: 385 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PCT-US96-08819-3

Query Match 100.0%; Score 151; DB 5; Length 385;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-15;  
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30  
 Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 5

US-08-200-724A-2  
 ; Sequence 2, Application US/08200724A  
 ; Patent No. 5849868

GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Beer, Steven V.  
 APPLICANT: Collmer, Alan  
 APPLICANT: He, Sheng-Yang  
 APPLICANT: Laby, Ron J.

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 STREET: Clinton Square  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 FILING DATE: 23-FEB-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/10030  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 403 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-200-724A-2

Query Match 100.0%; Score 151; DB 2; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30  
 Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 6

US-09-030-270A-3

Sequence 3, Application US/09030270A  
 Patent No. 5977060  
 GENERAL INFORMATION:  
 APPLICANT: Zitter, Thomas A.  
 APPLICANT: Wei, Zhong-Min  
 TITLE OF INVENTION: INSECT CONTROL WITH A  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nixon, Hatgrave, Devans & Doyle LLP  
 STREET: P.O. Box 1051, Clinton Square  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 FILING DATE: 28-FEB-1997  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/039,226  
 FILING DATE: 28-FEB-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1521  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 403 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-030-270A-3

Query Match 100.0%; Score 151; DB 2; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLKMFSEIMQSLFGDQDG 30  
 Db 150 STSDSDPMQQLKMFSEIMQSLFGDQDG 179

RESULT 7

US-08-851-376A-2  
 ; Sequence 2, Application US/08851376A  
 ; Patent No. 6174717

GENERAL INFORMATION:  
 APPLICANT: Beer, Steven V.  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Bauer, David W.  
 APPLICANT: Collmer, Alan  
 APPLICANT: He, Sheng-Yang  
 APPLICANT: Laby, Ron

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nixon Peabody LLP  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: NY  
 COUNTRY: U.S.A.  
 ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,376A  
FILING DATE: 05-MAY-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/200,724  
FILING DATE: 23-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10035  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 151; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDQDG 30  
DB 150 STSDSDPMQQLMKMFSEIMQSLFGDQDG 179

## RESULT 8

US-08-984-207-3  
Sequence 3, Application US/08984207  
Patent No. 6235974  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 151; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDQDG 30  
DB 150 STSDSDPMQQLMKMFSEIMQSLFGDQDG 179

## RESULT 9

US-09-013-587-3  
Sequence 3, Application US/09013587  
Patent No. 6277814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 151; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSDSDPMQQLMKMFSEIMQSLFGDQDG 30  
DB 150 STSDSDPMQQLMKMFSEIMQSLFGDQDG 179

RESULT 10  
US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-23  
Query Match 100.0%; Score 151; DB 4; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.9e-15;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 STSDSDPMQQLKMFSEIMQSLFGDGDG 30  
Db 150 STSDSDPMQQLKMFSEIMQSLFGDGDG 179  
RESULT 11  
US-09-214-564A-2  
; Sequence 2, Application US/09214564A  
; Patent No. 6150515  
; GENERAL INFORMATION:  
; APPLICANT: Sharp, Phillip A.  
; APPLICANT: Zhou, Qiang  
; TITLE OF INVENTION: Tat-SF: Cofactor For Stimulation Of Transcriptional  
; TITLE OF INVENTION: Elongation By HIV-1 TAT  
; FILE REFERENCE: M0656/7042  
; CURRENT APPLICATION NUMBER: US/09/214,564A  
; CURRENT FILING DATE: 1999-08-18  
; PRIOR APPLICATION NUMBER: US 60/021,218  
; PRIOR FILING DATE: 1996-07-03  
; PRIOR APPLICATION NUMBER: US 60/033,152  
; PRIOR FILING DATE: 1996-12-13  
; PRIOR APPLICATION NUMBER: PCT/US97/11713

; PRIOR FILING DATE: 1997-07-03  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 754  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-214-564A-2  
Query Match 35.4%; Score 53.5; DB 3; Length 754;  
Best Local Similarity 40.7%; Pred. No. 5.4;  
Matches 11; Conservative 5; Mismatches 6; Indels 5; Gaps 1;  
QY 4 DSSDPMQQLKMFSEIMQSLFGDGDG 30  
Db 7 DGNDEFDEQLR-----MQELYDGDG 28  
RESULT 12  
US-09-198-452A-424  
; Sequence 424, Application US/09198452A  
; Patent No. 6559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffaib, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 424  
; LENGTH: 283  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-424  
Query Match 31.8%; Score 48; DB 4; Length 283;  
Best Local Similarity 42.3%; Pred. No. 12;  
Matches 11; Conservative 6; Mismatches 9; Indels 0; Gaps 0;  
QY 2 TSDSDPMQQLKMFSEIMQSLFGDGDG 27  
Db 152 SSVSSEQLQQLSLVLSQMTTSQSGSG 177  
RESULT 13  
US-09-252-991A-27607  
; Sequence 27607, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 27607  
; LENGTH: 257  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-27607  
Query Match 30.8%; Score 46.5; DB 4; Length 257;  
Best Local Similarity 43.5%; Pred. No. 18;  
Matches 10; Conservative 5; Mismatches 5; Indels 3; Gaps 1;  
QY 7 DPMQQLKMFSEIMQSLFGDGDG 29

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Db      60 DPLENLLDLF---LQDLSGEGFD 79
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RESULT 14
US-09-252-991A-29429
; Sequence 29429, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29429
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
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Best Local Similarity 39.1%; Pred. No. 71;
Matches 9; Conservative 7; Mismatches 7; Indels 0; Gaps 0;
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Db      663 SASDSSDALPPTAVFTDVRSLS 685
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; Sequence 22064, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22064
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22064
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Best Local Similarity 43.5%; Pred. No. 27;
Matches 10; Conservative 4; Mismatches 9; Indels 0; Gaps 0;
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 Search time 26.5916 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-31\_COPY\_190\_294

Perfect score: 536

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Gapop 10.0, Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	536	100.0	341	9	US-09-086-118-25 Sequence 25, Appl
2	536	100.0	341	9	US-09-835-684-7 Sequence 7, Appl
3	536	100.0	341	9	US-09-880-371-7 Sequence 7, Appl
4	536	100.0	341	9	US-09-879-248-11 Sequence 11, Appl
5	536	100.0	341	9	US-09-770-693-5 Sequence 5, Appl
6	536	100.0	341	12	US-10-387-806-25 Sequence 25, Appl
7	536	100.0	341	15	US-10-034-158-5 Sequence 5, Appl
8	536	100.0	341	15	US-10-010-390-7 Sequence 7, Appl
9	103	19.2	19725	12	US-10-084-846A-4 Sequence 4, Appl
10	90	16.8	447	9	US-09-835-684-5 Sequence 5, Appl
11	90	16.8	447	9	US-09-880-371-5 Sequence 5, Appl
12	90	16.8	447	9	US-09-879-248-6 Sequence 6, Appl
13	90	16.8	447	15	US-10-010-390-5 Sequence 5, Appl
14	89.5	16.7	805	12	US-10-029-386-34042 Sequence 34042, A
15	89	16.6	256	11	US-09-820-843A-18 Sequence 18, Appl

16	89	16.6	457	15	US-10-156-761-10667	Sequence 10667, A
17	87	16.2	1079	11	US-09-820-843A-20	Sequence 20, Appl
18	85.5	16.0	579	14	US-10-108-605-215	Sequence 215, Appl
19	85	15.9	578	12	US-10-032-585-7793	Sequence 7793, Ap
20	83	15.5	424	9	US-09-835-684-9	Sequence 9, Appl
21	83	15.5	424	9	US-09-880-371-9	Sequence 9, Appl
22	83	15.5	424	9	US-09-879-248-14	Sequence 14, Appl
23	83	15.5	424	15	US-10-010-390-9	Sequence 9, Appl
24	83	15.5	460	12	US-10-084-843-184	Sequence 184, App
25	83	15.5	460	12	US-10-193-002-179	Sequence 179, App
26	81.5	15.2	479	10	US-09-918-951-3	Sequence 3, Appl
27	81.5	15.2	484	11	US-09-820-843A-19	Sequence 19, Appl
28	81.5	15.2	575	12	US-10-032-585-7158	Sequence 7158, Ap
29	81.5	15.2	653	12	US-10-369-493-5789	Sequence 5789, Ap
30	81	15.1	436	9	US-09-815-243-4881	Sequence 4881, Ap
31	81	15.1	438	9	US-09-815-243-10501	Sequence 10501, A
32	81	15.1	442	11	US-09-934-455-268	Sequence 268, App
33	81	15.1	444	9	US-09-792-420-5	Sequence 5, Appl
34	81	15.1	503	9	US-09-737-178-52	Sequence 52, Appl
35	81	15.1	503	10	US-09-286-488-52	Sequence 52, Appl
36	81	15.1	503	11	US-09-853-079-52	Sequence 52, Appl
37	81	15.1	666	9	US-09-737-178-85	Sequence 85, Appl
38	81	15.1	666	11	US-09-853-079-85	Sequence 85, Appl
39	81	15.1	677	9	US-09-737-178-144	Sequence 144, App
40	81	15.1	677	11	US-09-853-079-144	Sequence 144, App
41	81	15.1	1132	9	US-09-737-178-87	Sequence 87, Appl
42	81	15.1	1132	11	US-09-853-079-87	Sequence 87, Appl
43	80.5	15.0	1569	12	US-10-287-274-312	Sequence 312, App
44	80	14.9	344	9	US-09-086-118-27	Sequence 27, Appl
45	80	14.9	344	9	US-09-835-684-11	Sequence 11, Appl

#### ALIGNMENTS

#### RESULT 1

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US-09-086-118-25
; Sequence 25, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
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; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-25

Query Match 100.0%; Score 536; DB 9; Length 341;  
Best Local Similarity 100.0%; Pred. No. 4.8e-45;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 105  
DB 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 294

## RESULT 2

US-09-835-684-7  
; Sequence 7, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 341  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-835-684-7

Query Match 100.0%; Score 536; DB 9; Length 341;  
Best Local Similarity 100.0%; Pred. No. 4.8e-45;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 105  
DB 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 294

## RESULT 3

US-09-880-371-7  
; Sequence 7, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15

; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 341  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-880-371-7

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Best Local Similarity 100.0%; Pred. No. 4.8e-45;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 294

## RESULT 4

US-09-879-248-11  
; Sequence 11, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Pan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THERBOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 341  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-879-248-11

Query Match 100.0%; Score 536; DB 9; Length 341;  
Best Local Similarity 100.0%; Pred. No. 4.8e-45;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 105  
DB 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQL 294

## RESULT 5

US-09-770-693-5  
; Sequence 5, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Bauer, David W.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-770-693-5

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Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

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US-10-387-806-25
; Sequence 25, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-387-806-25

Query Match      100.0%; Score 536; DB 12; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 7
US-10-034-158-5
; Sequence 5, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27

; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-034-158-5

Query Match      100.0%; Score 536; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
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QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 8
US-10-010-390-7
; Sequence 7, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-010-390-7

Query Match      100.0%; Score 536; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 4.8e-45;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIIGQQLGNQSDAGSLAGTGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
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QY 61 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 105
Db 250 LIGELIDRGLQSVLAGGGLGTPVNTPTGTSGANGGSAQDLQLL 294

RESULT 9
US-10-084-846A-4
; Sequence 4, Application US/10084846A
; Publication No. US20040006026A1
; GENERAL INFORMATION:
; APPLICANT: WEITNAUER, GABRIELE
; APPLICANT: MUHLENWEG, AGNES
; APPLICANT: TREFFZER, AXEL
; APPLICANT: BECHTHOLD, ANDREAS
; TITLE OF INVENTION: AVILAMYCIN DERIVATIVES
; FILE REFERENCE: 1974-005
; CURRENT APPLICATION NUMBER: US/10/084,846A
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: PCT/EP01/09815
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: DE 101 09 166.4
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; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-5

Query Match      16.8%; Score 90; DB 15; Length 447;
Best Local Similarity 33.0%; Pred. No. 0.78;
Matches 36; Conservative 12; Mismatches 41; Indels 20; Gaps 6;

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Db      72 GNDQTTGCVGNAGGLNGRKGTAGTTTPOSDSQNMLSEMGNNGLDQAITPDGQGG--GQIGDN 129
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QY      60 -----QLGELIDRLGLOSLVLAGGGLGTPVNTPQTGTSANGGQSAQDL 101
      |||:      |||:      |||:      |||:      |||:      |||:      |||:      |||:
Db      130 PLLKAMKLKIARMMWGQSDQF---GPGTCNNSSASGCTSSGGGSPFNDL 175
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RESULT 14
US-10-029-386-34042
; Sequence 34042, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Shatron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34042
; LENGTH: 805
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL049732.11
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1
; OTHER INFORMATION: SWISSPROT HIT: Q12816, EVALUE 0.00e+00
US-10-029-386-34042

Query Match      16.7%; Score 89.5; DB 12; Length 805;
Best Local Similarity 33.3%; Pred. No. 1.8;
Matches 34; Conservative 10; Mismatches 37; Indels 21; Gaps 6;

QY      7 LGNQOQSDAGSLA---GTGGGLGTPSSFNNSVMGDPDLIDANTGPGDSG--NTRGEAGQL 61
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Db      647 LGTSAGFEGGLVTDGPGGGLGNASFP---GSTLG-----TSAGFSGGLSTSDGFGR 696
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QY      62 IGBLIDRLGLOSLVLAGGGLGTPVNT-----PQTGTSANGGQSA 98
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Db      697 PNASFRDLSTII--GFGSGNSTGTGTGEPSTGTGFSGSPSS 737
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RESULT 15
US-09-820-843A-18
; Sequence 18, Application US/09820843A
; Publication No. US20030039963A1
; GENERAL INFORMATION:
; APPLICANT: Council of Scientific and Industrial Research
; TITLE OF INVENTION: A COMPUTATIONAL METHOD FOR THE IDENTIFICATION OF CANDIDATE PROTEI
; TITLE OF INVENTION: USEFUL AS ANTI-INFECTIVES
; FILE REFERENCE: 063915
; CURRENT APPLICATION NUMBER: US/09/820,843A
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: PatentIn version 3.0

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 7.2052 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_343\_403

Perfect score: 308

Sequence: 1 MTPASMEQPNKAKGMIKRP.....DAMAGDAINNALGKLGAA 61

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/prodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	308	100.0	403	2	US-08-200-724A-2
2	308	100.0	403	2	US-09-030-270A-3
3	308	100.0	403	3	US-08-851-376A-2
4	308	100.0	403	3	US-08-984-207-3
5	308	100.0	403	3	US-09-013-587-3
6	308	100.0	403	4	US-09-086-118-23
7	195	63.3	338	1	US-08-891-254-1
8	195	63.3	338	2	US-08-484-358-2
9	195	63.3	338	2	US-08-819-539-1
10	195	63.3	338	2	US-09-030-270A-1
11	195	63.3	338	3	US-09-118-959-2
12	195	63.3	338	3	US-08-984-207-1
13	195	63.3	338	3	US-09-013-587-1
14	195	63.3	338	4	US-09-086-118-21
15	195	63.3	338	5	PCT-US96-08819-1
16	157	51.0	385	1	US-08-891-254-3
17	157	51.0	385	2	US-08-819-539-3
18	157	51.0	385	5	PCT-US96-08819-3
19	152	49.4	385	5	PCT-US93-06243-2
20	70.5	22.9	819	4	US-09-328-352-4650
21	65	21.1	406	4	US-09-252-991A-30272
22	64	20.8	943	4	US-09-056-556-204
23	64	20.8	943	4	US-09-072-596-199
24	63	20.5	215	4	US-09-252-991A-23858
25	62	20.1	1061	4	US-09-252-991A-23691
26	61	19.8	63	4	US-09-134-001C-4881
27	61	19.8	199	4	US-09-252-991A-26642

ALIGNMENTS

RESULT 1

US-08-200-724A-2  
; Sequence 2, Application US/08200724A

; Patent No. 5849868

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Bauer, David W.

; APPLICANT: Beer, Steven V.

; APPLICANT: Collmer, Alan

; APPLICANT: He, Sheng-Yang

; APPLICANT: Laby, Ron J

; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

; TITLE OF INVENTION: IN PLANTS

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Haggrave, Devans & Doyle

; STREET: Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/200,724A

; FILING DATE: 23-FEB-1994

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/10030

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 403 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 308; DB 2; Length 403;

Best Local Similarity 100.0%; Pred. No. 3.le-31;

Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 60  
Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 402  
QY 61 A 61  
Db 403 A 403

RESULT 2  
US-09-030-270A-3  
; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-030-270A-3

Query Match 100.0%; Score 308; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-31;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 60  
Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 402  
QY 61 A 61  
Db 403 A 403

RESULT 3  
US-08-851-376A-2  
; Sequence 2, Application US/08851376A  
; Patent No. 6174717  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon Peabody LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: NY  
; COUNTRY: U.S.A.  
; ZIP: 14603

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/851,376A  
; FILING DATE: 05-MAY-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/200,724  
; FILING DATE: 23-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 308; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-31;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 60  
Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMAGDAINNMALGKGA 402  
QY 61 A 61  
Db 403 A 403

RESULT 4  
US-08-984-207-3  
; Sequence 3, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.

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; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; BEST LOCAL SIMILARITY 100.0%; Score 308; DB 3; Length 403;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-3

Query Match 100.0%; Score 308; DB 3; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.le-31;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSLGIDAMMAGDAIINNMGALGLGA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGSSLGIDAMMAGDAIINNMGALGLGA 402
QY 61 A 61
DB 403 A 403

RESULT 5
US-09-013-587-3
; Sequence 3, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.

```

## RESULT 8

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RESULT 9
US-08-819-539-1
; Sequence 1, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-1

Query Match          63.3%; Score 195; DB 2; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAGMIKRPMAGDTGNLQGARGGSSLGIDAMMAGDAINNMLGKLGA 60
Db       278 MTGASHDKFRQMGMIKSVAAGDGTNTNLNRGGAGSLGIDAIVVGDKIANMSLKLAN 337
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QY      61 A 61
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Db     338 A 338

RESULT 11
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICATOR: Collier, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysantheми
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-118-959-2

Query Match          63.3%; Score 195; DB 3; Length 338;
Best Local Similarity 65.6%; Pred. No. 5.7e-17;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAGMIKRPMAGDTGNLQGARGGSSLGIDAMMAGDAINNMLGKLGA 60
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Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 12

US-08-984-207-1

; Sequence 1, Application US/08984207

; Patent No. 6235974

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED

; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: P.O. Box 1051, Clinton Square

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/984,207

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/033,230

; FILING DATE: 05-DEC-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1201

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 338 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-984-207-1

Query Match

Best Local Similarity 63.3%; Score 195; DB 3; Length 338;

Mismatches 14; Indels 0; Gaps 0;

Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

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Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 13

US-09-013-587-1

; Sequence 1, Application US/09013587

; Patent No. 6277814

; GENERAL INFORMATION:

; APPLICANT: Qiu, Dewen

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/013,587

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/036,048

; FILING DATE: 27-JAN-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1501

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 338 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-09-013-587-1

Query Match

Best Local Similarity 63.3%; Score 195; DB 3; Length 338;

Mismatches 14; Indels 0; Gaps 0;

Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNTNLNRGAGGASLGIDAAMAGDAINNMLGKLA 60

Db 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVVGDKIANNMGLKLAN 337

QY 61 A 61

Db 338 A 338

RESULT 14

US-09-086-118-21

; Sequence 21, Application US/09086118

; Patent No. 6583107

; GENERAL INFORMATION:

; APPLICANT: Laby, Ronald J.

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

; TITLE OF INVENTION: THEREOF

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible



OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 63.3%; Score 195; DB 4; Length 338;  
Best Local Similarity 65.6%; Pred. No. 5.7e-17;  
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;  
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QY 61 A 61  
DB 338 A 338

RESULT 15  
PCT-US96-08819-1  
Sequence 1, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-1  
Query Match 63.3%; Score 195; DB 5; Length 338;  
Best Local Similarity 65.6%; Pred. No. 5.7e-17;  
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;  
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DB 278 MTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVGDKIANMSLGKLAN 337  
QY 61 A 61  
DB 338 A 338  
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Job time : 7.2052 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 15.4484 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_343\_403

Perfect score: 308

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Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
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2	308	100.0	403	9	US-09-835-684-3
3	308	100.0	403	9	US-09-880-371-3
4	308	100.0	403	9	US-09-879-248-3
5	308	100.0	403	9	US-09-770-693-3
6	308	100.0	403	10	US-09-766-348-3
7	308	100.0	403	12	US-10-387-806-23
8	308	100.0	403	15	US-10-034-158-3
9	308	100.0	403	15	US-10-010-390-3
10	195	63.3	338	9	US-09-086-118-21
11	195	63.3	338	9	US-09-835-684-1
12	195	63.3	338	9	US-09-880-371-1
13	195	63.3	338	9	US-09-879-248-1
14	195	63.3	338	9	US-09-770-693-1
15	195	63.3	338	10	US-09-766-348-1

Sequence 21, Appl	Sequence 1, Appl	Sequence 1, Appl	Sequence 204, App	Sequence 199, App	Sequence 14012, A	Sequence 25, Appl	Sequence 131, App	Sequence 131, App	Sequence 131, App	Sequence 18042, A	Sequence 13610, A	Sequence 4617, Ap	Sequence 176, App	Sequence 199, App	Sequence 660, App	Sequence 3956, Ap	Sequence 13, Appl	Sequence 13460, A	Sequence 6409, Ap	Sequence 1197, A	Sequence 50, Appl	Sequence 8278, Ap	Sequence 715, App	Sequence 2799, Ap	Sequence 114, App	Sequence 35, Appl	Sequence 161, App	Sequence 161, App	Sequence 12652, A																																																																											
16	195	63.3	338	12	US-10-387-806-21	338	12	US-10-034-158-1	338	15	US-10-010-390-1	338	15	US-10-084-843-204	943	12	US-10-193-002-199	943	12	US-10-369-493-14012	424	12	US-10-312-088-25	457	12	US-09-996-634-131	943	11	US-09-997-182-131	943	11	US-09-997-181-131	274	12	US-10-369-493-18042	68	9	US-09-815-242-13610	352	10	US-09-738-626-4617	57	18.5	18.5	128	12	US-10-161-051-176	134	15	US-10-078-090-199	381	12	US-10-295-027-660	862	10	US-09-738-626-3956	57	18.5	873	11	US-09-952-267-13	67	9	US-09-815-242-13460	303	10	US-09-738-626-6409	36	56.5	18.3	439	15	US-10-156-761-11197	1173	11	US-09-836-705-50	58	15	US-10-156-761-8278	167	15	US-10-101-464A-715	552	12	US-10-369-493-2799	724	12	US-10-291-583-114	2095	12	US-10-063-685-35	2095	15	US-10-184-644-161	56	18.2	2095	15	US-10-184-634-161	55.5	18.0	148	15	US-10-156-761-12652

ALIGNMENTS

RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hatgrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 308; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.9e-30;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMWAGDAINNMGKLGCA 60  
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Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMWAGDAINNMGKLGCA 402

QY 61 A 61  
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Db 403 A 403

## RESULT 2

US-09-835-684-3  
; Sequence 3, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min

; APPLICANT: Qiu, Dewen  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION

; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 308; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.9e-30;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMWAGDAINNMGKLGCA 402

QY 61 A 61  
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Db 403 A 403

## RESULT 3

US-09-880-371-3  
; Sequence 3, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS

; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15

; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-880-371-3

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Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMWAGDAINNMGKLGCA 402

QY 61 A 61  
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Db 403 A 403

## RESULT 4

US-09-879-248-3  
; Sequence 3, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:

; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 308; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8.9e-30;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 A 61  
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Db 403 A 403

## RESULT 5

US-09-770-693-3  
; Sequence 3, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.  
; APPLICANT: Bauer, David W.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 308; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402
QY 61 A 61
DB 403 A 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qlu, Dwen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 308; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
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DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402
QY 61 A 61
DB 403 A 403

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
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; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
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; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

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Best Local Similarity 100.0%; Pred. No. 8.9e-30;
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DB 403 A 403

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 308; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 60
DB 343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLGCA 402
QY 61 A 61
DB 403 A 403

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
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; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

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Best Local Similarity 100.0%; Pred. No. 8.9e-30;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      343 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 402

QY      61 A 61
Db      403 A 403

RESULT 10
US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/086,118
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-21

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

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Db      338 A 338

RESULT 11
US-09-835-684-1
; Sequence 1, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-835-684-1

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      338 A 338

RESULT 12
US-09-880-371-1
; Sequence 1, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-880-371-1

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY      1 MTPASMEQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMGKLG 60
Db      338 A 338
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Qy	61 A 61
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Db	338 A 338

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RESULT 13
US-09-879-248-1
; Sequence 1, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-879-248-1

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Query Match	63.3%;	Score 195;	DB 9;	Length 338;
Best Local Similarity	65.6%;	Pred. No. 6.2e-16;		
Matches 40;	Conservative 7;	Mismatches 14;	Indels 0;	Gaps 0
Qy	1	MTPASMEOFNKAKGMIKRPIMAGDTCNGNLQARGAGSSIGIDAMWAGDAINNMAI	KGLGA	60
Db	278	MTGASMDXFRQAMGIKSAVAGDTGNTLNLRGAGGASLGIDAAVVVDGKIANSLSL	KLAN	337
Qy	61	A	61	
Db	338	A	338	

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RESULT 14
US-09-770-693-1
; Sequence 1, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: COMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-770-693-1

Query Match      63.3%; Score 195; DB 9; Length 338;
Best Local Similarity 65.6%; Pred. No. 6.2e-16;
Matches 40; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

Qy      1      MTPASMSQFNKAKGMIKRPMAGDTGNGNLQARGAGGSSLGIDAMMAGDAINNMAIGKIGA 60
Db      278      MTGASMDKFFRQAMGWIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVGDKTANMSLGKIAN 337

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 16.1822 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_267\_403

Perfect score: 714

Sequence: 1 MKAGIQALNDIGTHRSSTR.....DAMWAGDAINNALGKLGAA 137

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

#### Database :

Issued Patents\_AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	714	100.0	403	2	US-09-030-270A-3
3	714	100.0	403	3	US-08-851-376A-2
4	714	100.0	403	3	US-08-984-207-3
5	714	100.0	403	3	US-09-013-587-3
6	714	100.0	403	4	US-09-086-118-23
7	563	78.9	385	1	US-08-891-254-3
8	563	78.9	385	2	US-08-819-539-3
9	563	78.9	385	5	PCT-US96-08819-3
10	558	78.2	385	5	PCT-US93-06243-2
11	466	65.3	338	1	US-08-891-254-1
12	466	65.3	338	2	US-08-484-358-2
13	466	65.3	338	2	US-08-819-539-1
14	466	65.3	338	3	US-09-030-270A-1
15	466	65.3	338	3	US-09-118-959-2
16	466	65.3	338	3	US-08-984-207-1
17	466	65.3	338	3	US-09-013-587-1
18	466	65.3	338	4	US-09-086-118-21
19	466	65.3	338	5	PCT-US96-08819-1
20	85	11.9	341	1	US-08-062-024B-5
21	85	11.9	341	1	US-08-891-254-5
22	85	11.9	341	2	US-08-756-407-5
23	85	11.9	341	2	US-08-819-539-5
24	85	11.9	341	2	US-09-030-270A-5
25	85	11.9	341	3	US-08-984-207-5
26	85	11.9	341	3	US-09-013-587-5
27	85	11.9	341	4	US-09-086-118-25

28 85 11.9 341 5 PCT-US94-05014-5 Sequence 5, Appli  
29 85 11.9 341 5 PCT-US96-08819-5 Sequence 5, Appli  
30 75 10.5 474 4 US-09-702-705-1812 Sequence 1812, Ap  
31 75 10.5 474 4 US-09-736-457-1812 Sequence 1812, Ap  
32 74.5 10.4 1127 3 US-09-150-460B-11 Sequence 11, Appli  
33 74 10.4 831 4 US-09-336-447A-1 Sequence 1, Appli  
34 73.5 10.3 217 4 US-09-252-991A-29680 Sequence 29680, A  
35 73.5 10.3 819 4 US-09-328-352-4650 Sequence 4650, A  
36 73 10.2 1094 2 US-09-268-347-32 Sequence 32, Appli  
37 71 9.9 751 2 US-08-843-530B-32 Sequence 32, Appli  
38 70.5 9.9 232 6 5171843-7 Patent No. 5171843  
39 70.5 9.9 378 6 5171843-9 Patent No. 5171843  
40 70 9.8 309 4 US-09-252-991A-30024 Sequence 30024, A  
41 69 9.7 640 4 US-09-336-115C-14 Sequence 14, Appli  
42 68 9.5 490 4 US-09-252-991A-30874 Sequence 30874, A  
43 68 9.5 518 4 US-09-252-991A-25967 Sequence 25967, A  
44 67.5 9.5 190 4 US-09-125-619-27 Sequence 27, Appli  
45 67.5 9.5 350 3 US-09-137-855-2 Sequence 2, Appli

#### ALIGNMENTS

RESULT 1  
US-08-200-724A-2  
; Sequence 2, Application US/08200724A  
; Patent No. 5849868  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron J.  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; NUMBER OF INVENTION: 5  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Nixon, Haggrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/200,724A  
FILING DATE: 23-FEB-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10030  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-200-724A-2

Query Match 100.0%; Score 714; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 4e-78;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 267 MKAGIQALNDIGTHRRSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQGVKT 326  
QY 61 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 120  
Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 386  
QY 121 MAGDAINNMGKLGAA 137  
Db 387 MAGDAINNMGKLGAA 403

RESULT 2  
US-09-030-270A-3  
; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-030-270A-3

Query Match 100.0%; Score 714; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 4e-78;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MKAGIQALNDIGTHRRSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQGVKT 60  
Db 267 MKAGIQALNDIGTHRRSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQGVKT 326  
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Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 386  
QY 121 MAGDAINNMGKLGAA 137  
Db 387 MAGDAINNMGKLGAA 403

RESULT 3  
US-08-851-376A-2  
; Sequence 2, Application US/08851376A  
; Patent No. 6174717  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon Peabody LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: NY  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/851,376A  
; FILING DATE: 05-MAY-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/200,724  
; FILING DATE: 23-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 714; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 4e-78;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 267 MKAGIQALNDIGTHRRSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQGVKT 326  
QY 61 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 120  
Db 327 DKSWSAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 386  
QY 121 MAGDAINNMGKLGAA 137  
Db 387 MAGDAINNMGKLGAA 403  
RESULT 4  
US-08-984-207-3  
; Sequence 3, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:

APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: US 60/033,230  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 714; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 4e-78;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MKAGIQALNDIGTHRSSTSFVNKGDRAMAKIIGQFMDQYPEVFGKPYQKPGQEVKT 60  
DB 267 MKAGIQALNDIGTHRSSTSFVNKGDRAMAKIIGQFMDQYPEVFGKPYQKPGQEVKT 326  
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120  
DB 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386  
QY 121 MAGDAINNMGKLGAA 137  
DB 387 MAGDAINNMGKLGAA 403

RESULT 5  
US-09-013-587-3  
Sequence 3, Application US/09013587  
Patent No. 6277814  
GENERAL INFORMATION:  
APPLICANT: Qiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York

COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: US 60/036,048  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 714; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 4e-78;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 267 MKAGIQALNDIGTHRSSTSFVNKGDRAMAKIIGQFMDQYPEVFGKPYQKPGQEVKT 326  
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120  
DB 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386  
QY 121 MAGDAINNMGKLGAA 137  
DB 387 MAGDAINNMGKLGAA 403

RESULT 6  
US-09-086-118-23  
Sequence 23, Application US/09086118  
Patent No. 6583107  
GENERAL INFORMATION:  
APPLICANT: Laby, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118

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/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA: US 60/048,109
/ APPLICATION NUMBER: 30-MAY-1997
/ FILING DATE: 30-MAY-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/1301
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 403 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-086-118-23

Query Match          100.0%; Score 714; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 4e-78;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGGSSSLGIDAM 386

QY 121 MAGDAINNNALGKLGAA 137
Db 387 MAGDAINNNALGKLGAA 403

RESULT 7
US-08-891-254-3
; Sequence 3, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match          78.9%; Score 563; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 372

RESULT 8
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match          78.9%; Score 563; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 60
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/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 385 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-891-254-3

Query Match          78.9%; Score 563; DB 1; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQ 372

RESULT 8
US-08-819-539-3
; Sequence 3, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-819-539-3

Query Match          78.9%; Score 563; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKQGPQGEVKT 60
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Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNLQ 372

RESULT 9
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-08819-3

Query Match 78.9%; Score 563; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 7.5e-60;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 60
Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNLQ 106
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNLQ 372

RESULT 10
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Bear, Alan Collier, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
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; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match 78.2%; Score 558; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 3e-59;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKT 326
QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNL 105
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDAGDTGNGNL 371

RESULT 11
US-08-891-254-1
; Sequence 1, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
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/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/475,775
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 14603/10050
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 338 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-08-891-254-1

Query Match 65.3%; Score 466; DB 1; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSTSRFVNKGDRAMAKETIQFMDQYVEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNNRHFDKEDRGMAKEIQFMDQYVEVFGKPYQKPGQEVKTDD 263
QY 63 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGSSSLGIDAMMA 122
Db 264 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGSSSLGIDAMMA 323
QY 123 GDAINNMALGKLGA 137
Db 324 GDKIANMSLGKLANA 338
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RESULT 12
US-08-484-358-2
/ Sequence 2, Application US/08484358
/ Patent No. 5850015
/ GENERAL INFORMATION:
/ APPLICANT: Bauer, David
/ APPLICANT: Collmer, Alan
/ TITLE OF INVENTION: Hypersensitive Response Elicitor
/ TITLE OF INVENTION: From
/ TITLE OF INVENTION: Erwinia Chrysanthemi
/ NUMBER OF SEQUENCES: 6
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle
/ STREET: Clinton Square
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/484,358
/ FILING DATE:
/ CLASSIFICATION: 800
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/840
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 716-263-1304
/ TELEFAX: 716-263-1600
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 338 amino acids
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/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-08-484-358-2

Query Match 65.3%; Score 466; DB 2; Length 338;
Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRHSTSRFVNKGDRAMAKETIQFMDQYVEVFGKPYQKPGQEVKTDD 62
Db 204 AALSALSNVSTHVDGNNRHFDKEDRGMAKEIQFMDQYVEVFGKPYQKPGQEVKTDD 263
QY 63 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGSSSLGIDAMMA 122
Db 264 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGSSSLGIDAMMA 323
QY 123 GDAINNMALGKLGA 137
Db 324 GDKIANMSLGKLANA 338
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RESULT 13
US-08-819-539-1
/ Sequence 1, Application US/08819539
/ Patent No. 5859324
/ GENERAL INFORMATION:
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: Hypersensitive Response
/ TITLE OF INVENTION: Induced Resistance In Plants
/ NUMBER OF SEQUENCES: 9
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle
/ STREET: Clinton Square, P.O. Box 1051
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/819,539
/ FILING DATE: 17-MAR-1997
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/475,775
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 14603/10050
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 338 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
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US-08-819-539-1
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Best Local Similarity 66.7%; Pred. No. 3.5e-48;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

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Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323  
Qy 123 GDAINNMALGKLGAA 137  
Db 324 GDKIANMSLGKLANA 338

RESULT 14  
US-09-030-270A-1  
; Sequence 1, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitcer, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-030-270A-1

Query Match 65.3%; Score 466; DB 2; Length 338;  
Best Local Similarity 66.7%; Pred. No. 3.5e-48;  
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;  
Qy 3 AGIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDD 62  
Db 204 AALSALSNVSTHVDGNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDD 263  
Qy 63 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGGSSLGIDAMMA 122  
Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323  
Qy 123 GDAINNMALGKLGAA 137  
Db 324 GDKIANMSLGKLANA 338

RESULT 15  
US-09-118-959-2  
; Sequence 2, Application US/09118959  
; Patent No. 6001959  
; GENERAL INFORMATION:  
; APPLICANT: Bauer, David  
; APPLICANT: Collmer, Alan  
; TITLE OF INVENTION: Hypersensitive Response Elicitor From  
; TITLE OF INVENTION: Erwinia Chryseanthemi  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/118,959  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/840  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 716-263-1304  
; TELEFAX: 716-263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-118-959-2

Query Match 65.3%; Score 466; DB 3; Length 338;  
Best Local Similarity 66.7%; Pred. No. 3.5e-48;  
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;  
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Db 204 AALSALSNVSTHVDGNRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDD 263  
Qy 63 KSWAKALSKPDDGDMTPASMEQFNKAGMKIKRPMAGDTGNGNLQARGAGGSSLGIDAMMA 122  
Db 264 KSWAKALSKPDDGDMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVV 323  
Qy 123 GDAINNMALGKLGAA 137  
Db 324 GDKIANMSLGKLANA 338

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Job time : 17.1822 secs

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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 34.6957 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_267\_403

Perfect score: 714

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Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	714	100.0	403	9	US-09-086-118-23
2	714	100.0	403	9	US-09-835-684-3
3	714	100.0	403	9	US-09-880-371-3
4	714	100.0	403	9	US-09-879-248-3
5	714	100.0	403	9	US-09-770-693-3
6	714	100.0	403	10	US-09-766-348-3
7	714	100.0	403	12	US-10-387-806-23
8	714	100.0	403	15	US-10-034-158-3
9	714	100.0	403	15	US-10-010-390-3
10	466	65.3	338	9	US-09-086-118-21
11	466	65.3	338	9	US-09-835-684-1
12	466	65.3	338	9	US-09-880-371-1
13	466	65.3	338	9	US-09-879-248-1
14	466	65.3	338	9	US-09-770-693-1
15	466	65.3	338	10	US-09-766-348-1

16	466	65.3	338	12	US-10-387-806-21
17	466	65.3	338	15	US-10-034-158-1
18	466	65.3	338	15	US-10-010-390-1
19	85	11.9	341	9	US-09-086-118-25
20	85	11.9	341	9	US-09-835-684-7
21	85	11.9	341	9	US-09-880-371-7
22	85	11.9	341	9	US-09-879-248-11
23	85	11.9	341	9	US-09-770-693-5
24	85	11.9	341	12	US-10-387-806-25
25	85	11.9	341	15	US-10-034-158-5
26	85	11.9	341	15	US-10-010-390-7
27	81.5	11.4	556	9	US-09-815-242-11023
28	81	11.3	3256	10	US-09-919-172-98
29	81	11.3	3256	11	US-09-919-039-21
30	77.5	10.9	359	9	US-09-925-302-591
31	77.5	10.9	399	12	US-10-205-194-146
32	77.5	10.9	617	12	US-10-295-027-468
33	77.5	10.9	617	12	US-10-295-027-1316
34	76.5	10.7	112	9	US-09-864-761-35771
35	76.5	10.7	401	12	US-10-369-493-3473
36	76.5	10.7	540	15	US-10-156-761-10686
37	75	10.5	474	10	US-09-736-457-1812
38	75	10.5	474	10	US-09-902-941-1812
39	75	10.5	474	10	US-09-849-626-1812
40	75	10.5	474	12	US-10-113-872-1812
41	75	10.5	474	12	US-10-029-386-32037
42	75	10.5	474	15	US-10-017-754-1812
43	75	10.5	474	15	US-10-205-823-381
44	74	10.4	443	12	US-10-369-493-4021
45	74	10.4	831	11	US-09-952-267-1

ALIGNMENTS

RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086.118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

```

; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 60
Db 267 MKAGIQALNDIGTHRHSSSTRSFVNGKDRAMAKEIGQFMDQYPEVFGKPOYQKGPQGEVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 5
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US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 714; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SBED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 714; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 386

US-09-770-806-23
; Sequence 23, Application US/10387806
; Publication No. US2003018283A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; PRIOR FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 714; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 5.1e-70;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 60
Db 267 MKAGIQALNDIGTHRHSSRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGVKT 326

QY 61 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 120
Db 327 DDKSWAKALSKPDDGDMTPASMEQFNKAKGMIKRP MAGDTGNGNLQARGAGGSSSLGIDAM 386

QY 121 MAGDAINNMMALGKLGAA 137
Db 387 MAGDAINNMMALGKLGAA 403

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3
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Query Match 100.0%; Score 714; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 5.1e-70;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAKEIGQFMDQYEVFGKPYQKPGQEVKT 60  
DB 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAKEIGQFMDQYEVFGKPYQKPGQEVKT 326  
QY 61 DKSNAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAM 120  
DB 327 DKSNAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAM 386  
QY 121 MAGDAINNMAKGLGAA 137  
DB 387 MAGDAINNMAKGLGAA 403

RESULT 9  
US-10-010-390-3  
; Sequence 3, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; PRIOR FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 714; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 5.1e-70;  
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKAGIQALNDIGTHRSSTRSFVNKGDRAKEIGQFMDQYEVFGKPYQKPGQEVKT 60  
DB 267 MKAGIQALNDIGTHRSSTRSFVNKGDRAKEIGQFMDQYEVFGKPYQKPGQEVKT 326  
QY 61 DKSNAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAM 120  
DB 327 DKSNAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAM 386  
QY 121 MAGDAINNMAKGLGAA 137  
DB 387 MAGDAINNMAKGLGAA 403

RESULT 10  
US-09-086-118-21  
; Sequence 21, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Lady, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 65.3%; Score 466; DB 9; Length 338;  
Best Local Similarity 66.7%; Pred. No. 7.4e-43;  
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY 3 AGIQALNDIGTHRSSTRSFVNKGDRAKEIGQFMDQYEVFGKPYQKPGQEVKTDD 62  
DB 204 AALSALSNVSTHVDGNNRHFDKEDRGMAKEIGQFMDQYEVFGKPYQKPGQEVKTDD 263  
QY 63 KSWAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAMMA 122  
DB 264 KSWAKALSKPDDGDMTASMEQFNKAGMIKRPWAGDTGNGNLOARGAGSSSLGIDAMMA 263  
QY 123 GDAINNMAKGLGAA 137  
DB 324 GDKIANNMSLGLANA 338

RESULT 11  
US-09-835-684-1  
; Sequence 1, Application US/09835684  
; Patent No. US2002001937A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Deyen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-835-684-1

RESULT 15  
US-09-766-348-1  
; Sequence 1, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS B  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986

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; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
US-09-766-348-1

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Query Match      65.3%; Score 466; DB 10; Length 338;
Best Local Similarity 66.7%; Pred. No. 7.4e-43;
Matches 90; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

QY      3 AGIQALNDIGTHRHSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPYQKPGQEVKTDD 62
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Db      204 AALSALSNVSTHYDGNRHFDKEDRCMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDD 263
      | : ||::: | | : | | : | | | | | | | | | | | | | | | | | |

QY      63 KSWAKALSKPDDDGMTFASMEQFNKAKGMIKRPMAGDTGNLQARGAGSSLGIDAMMA 122
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Db      264 KSWAKALSKPDDDGMTGASMDKPRQAMGMIKSAVAGDTGNTNLRGAGASLGIDAAVV 323
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QY      123 GDAINNMGKLGAA 137
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Db      324 GDKIANNSLGKLANA 338
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Search completed: January 20, 2004, 14:55:46
Job time : 35.6957 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 22.9149 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_210\_403

Perfect score: 1013

Sequence: 1 MGNGLSQLNGGLGGGGG.....DAMWAGDAINNALGKLGA 194

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2.6/prodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2.6/prodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2.6/prodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2.6/prodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2.6/prodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2.6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1013	100.0	403	2 US-08-200-724A-2	Sequence 2, Appli
2	1013	100.0	403	2 US-09-030-270A-3	Sequence 3, Appli
3	1013	100.0	403	3 US-08-851-376A-2	Sequence 2, Appli
4	1013	100.0	403	3 US-08-984-207-3	Sequence 3, Appli
5	1013	100.0	403	3 US-09-013-587-3	Sequence 3, Appli
6	1013	100.0	403	4 US-09-086-118-23	Sequence 23, Appli
7	862	85.1	385	1 US-08-891-254-3	Sequence 3, Appli
8	862	85.1	385	2 US-08-819-539-3	Sequence 3, Appli
9	862	85.1	385	5 PCT-US96-08819-3	Sequence 3, Appli
10	847	83.6	385	5 PCT-US93-06243-2	Sequence 2, Appli
11	582	57.5	338	1 US-08-891-254-1	Sequence 1, Appli
12	582	57.5	338	2 US-08-484-358-2	Sequence 2, Appli
13	582	57.5	338	2 US-08-819-539-1	Sequence 1, Appli
14	582	57.5	338	2 US-09-030-270A-1	Sequence 1, Appli
15	582	57.5	338	3 US-09-118-959-2	Sequence 2, Appli
16	582	57.5	338	3 US-08-984-207-1	Sequence 1, Appli
17	582	57.5	338	3 US-09-013-587-1	Sequence 1, Appli
18	582	57.5	338	4 US-09-086-118-21	Sequence 21, Appli
19	582	57.5	338	5 PCT-US96-08819-1	Sequence 1, Appli
20	120.5	11.9	1127	3 US-09-150-460B-11	Sequence 11, Appli
21	108	10.7	569	3 US-08-926-842B-19	Sequence 19, Appli
22	104	10.3	566	3 US-08-926-842B-18	Sequence 18, Appli
23	103	10.2	341	1 US-08-062-024B-5	Sequence 5, Appli
24	103	10.2	341	1 US-08-891-254-5	Sequence 5, Appli
25	103	10.2	341	2 US-08-756-407-5	Sequence 5, Appli
26	103	10.2	341	2 US-08-819-539-5	Sequence 5, Appli
27	103	10.2	341	2 US-09-030-270A-5	Sequence 5, Appli

28	103	10.2	341	3 US-08-984-207-5	Sequence 5, Appli
29	103	10.2	341	3 US-09-013-587-5	Sequence 5, Appli
30	103	10.2	341	4 US-09-086-118-25	Sequence 25, Appli
31	103	10.2	341	5 PCT-US94-05014-5	Sequence 5, Appli
32	103	10.2	341	5 PCT-US96-08819-5	Sequence 5, Appli
33	99	9.8	479	3 US-09-177-349-3	Sequence 3, Appli
34	98	9.7	464	4 US-09-252-991A-24883	Sequence 24883, A
35	96.5	9.5	141	4 US-09-252-991A-23427	Sequence 23427, A
36	95.5	9.4	651	3 US-08-556-978B-19	Sequence 19, Appli
37	95.5	9.4	651	3 US-09-247-806-1	Sequence 1, Appli
38	95.5	9.4	718	1 US-08-425-069-2	Sequence 2, Appli
39	95.5	9.4	718	2 US-08-317-844B-2	Sequence 2, Appli
40	95.5	9.4	747	3 US-09-034-177-3	Sequence 3, Appli
41	93.5	9.2	943	4 US-09-056-556-204	Sequence 204, App
42	93.5	9.2	943	4 US-09-072-596-199	Sequence 199, App
43	93.5	9.2	943	4 US-09-477-135A-131	Sequence 131, App
44	92	9.1	349	4 US-09-252-991A-17840	Sequence 17840, A
45	90.5	8.9	1958	1 US-07-945-283-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-08-200-724A-2  
; Sequence 2, Application US/08200724A  
; Patent No. 5849868  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron J.  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; NUMBER OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Haigraue, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/200,724A  
; FILING DATE: 23-FEB-1994  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10030  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-200-724A-2

Query Match 100.0%; Score 1013; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.3e-98;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAGTIGMKA 60  
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Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQGVKTDK 329  
QY 121 SWAKALSKPDDGGMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGGSSSLGIDAMWAG 180  
Db 330 SWAKALSKPDDGGMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGGSSSLGIDAMWAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 2

US-09-030-270A-3  
; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-09-030-270A-3  
Query Match 100.0%; Score 1013; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.3e-98;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAGTIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQGVKTDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQGVKTDK 329

QY 121 SWAKALSKPDDGGMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGGSSSLGIDAMWAG 180  
Db 330 SWAKALSKPDDGGMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGGSSSLGIDAMWAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 3

US-08-851-376A-2  
; Sequence 2, Application US/08851376A  
; Patent No. 6174717  
; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon Peabody LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: NY  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/851,376A  
; FILING DATE: 05-MAY-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/200,724  
; FILING DATE: 23-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

US-08-851-376A-2  
Query Match 100.0%; Score 1013; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.3e-98;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAGTIGMKA 60  
Db 210 MGNGLSOLLGNGGLGGGGGAGTGLDSSSLGKGLQNLSPVVDYQQLGNVAGTIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQGVKTDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQGVKTDK 329  
QY 121 SWAKALSKPDDGGMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGGSSSLGIDAMWAG 180



Db 330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSLGIDAMMAG 389

Qy 181 DAINNMALGKLGA 194  
Db 330 DAINNMALGKLGA 403

RESULT 4  
US-08-984-207-3  
; Sequence 3, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/984,207  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/033,230  
; FILING DATE: 05-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1201  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 1013; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.3e-98;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MNGLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 60  
Db 210 MNGLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 269  
Qy 61 GIQALNDIGTTHRSSTRSFVNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQOEVTDDK 120  
Db 270 GIQALNDIGTTHRSSTRSFVNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQOEVTDDK 329  
Qy 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSLGIDAMMAG 389  
Qy 181 DAINNMALGKLGA 194  
Db 330 DAINNMALGKLGA 403

RESULT 5  
US-09-013-587-3  
; Sequence 3, Application US/09013587  
; Patent No. 6277814  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/013,587  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/036,048  
; FILING DATE: 27-JAN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1501  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 1013; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2.3e-98;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MNGLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 60  
Db 210 MNGLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 269  
Qy 61 GIQALNDIGTTHRSSTRSFVNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQOEVTDDK 120  
Db 270 GIQALNDIGTTHRSSTRSFVNKGDRAMAKEIQFMDQYPEVFGKPYQKGPQOEVTDDK 329  
Qy 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSLGIDAMMAG 389  
Qy 181 DAINNMALGKLGA 194  
Db 330 DAINNMALGKLGA 403  
RESULT 6  
US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-086-118-23

Query Match 100.0%; Score 1013; DB 4; Length 403;

Best Local Similarity 100.0%; Pred. No. 2.3e-98;

Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60

Db 210 MGNLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269

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Db 270 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYQKPGQEVKTDDK 329

QY 121 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQARGAGSSSLGIDAMWAG 180

Db 330 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQARGAGSSSLGIDAMWAG 389

QY 181 DAINNMAKLGAA 194

Db 390 DAINNMAKLGAA 403

RESULT 7

US-08-891-254-3

; Sequence 3, Application US/08891254

; Patent No. 5776889

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: Hypersensitive Response

; TITLE OF INVENTION: Induced Resistance In Plants

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/891,254

FILING DATE: 10-JUL-1997

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/475,775

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 14603/10050

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 385 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-891-254-3

Query Match

85.1%; Score 862; DB 1; Length 385;

Best Local Similarity 100.0%; Pred. No. 1.6e-82;

Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNLSQLLNGGLGGGGGAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60

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QY 61 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYQKPGQEVKTDDK 120

Db 270 GIQALNDIGTHRHSSSTRSFVNKGDRAMAKEIQFMDQYEVFGKPOYQKPGQEVKTDDK 329

QY 121 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQ 163

Db 330 SWAKLSKPDGDMTPASMEQFNKAKGMIKRPMAAGTGNLQ 372

RESULT 8

US-08-819-539-3

; Sequence 3, Application US/08819539

; Patent No. 5859324

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Beer, Steven V.

; TITLE OF INVENTION: Hypersensitive Response

; TITLE OF INVENTION: Induced Resistance In Plants

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: US/08/819,539  
;/ FILING DATE: 17-MAR-1997  
;/ CLASSIFICATION: 800  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: 08/475,775  
;/ FILING DATE:  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: Goldman, Michael L.  
;/ REGISTRATION NUMBER: 30,727  
;/ REFERENCE/DOCKET NUMBER: 14603/10050  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (716) 263-1304  
;/ TELEFAX: (716) 263-1600  
;/ INFORMATION FOR SEQ ID NO: 3:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 385 amino acids  
;/ TYPE: amino acid  
;/ STRANDEDNESS:  
;/ TOPOLOGY: linear  
;/ MOLECULE TYPE: protein  
;/ US-08-819-539-3

Query Match 85.1%; Score 862; DB 2; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.6e-82;  
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 120  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 163  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 372

RESULT 9  
PCT-US96-08819-3  
;/ Sequence 3, Application PC/TUS9608819  
;/ GENERAL INFORMATION:  
;/ APPLICANT: Cornell Research Foundation, Inc.  
;/ TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
;/ TITLE OF INVENTION: RESISTANCE IN PLANTS  
;/ NUMBER OF SEQUENCES: 9  
;/ CORRESPONDENCE ADDRESS:  
;/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
;/ CITY: Rochester  
;/ STATE: New York  
;/ COUNTRY: U.S.A.  
;/ ZIP: 14603  
;/ COMPUTER READABLE FORM:  
;/ MEDIUM TYPE: Floppy disk  
;/ COMPUTER: IBM PC compatible  
;/ OPERATING SYSTEM: PC-DOS/MS-DOS  
;/ SOFTWARE: PatentIn Release #1.0, Version #1.30  
;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: PCT/US96/08819  
;/ FILING DATE:  
;/ CLASSIFICATION:  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 08/475,775  
;/ FILING DATE: 07-JUN-1995  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: Goldman, Michael L.  
;/ REGISTRATION NUMBER: 30,727  
;/ REFERENCE/DOCKET NUMBER: 19603/10051  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (716) 263-1304

;/ TELEFAX: (716) 263-1600  
;/ INFORMATION FOR SEQ ID NO: 3:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 385 amino acids  
;/ TYPE: amino acid  
;/ STRANDEDNESS:  
;/ TOPOLOGY: linear  
;/ MOLECULE TYPE: protein  
;/ PCT-US96-08819-3

Query Match 85.1%; Score 862; DB 5; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.6e-82;  
Matches 163; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 60  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
210 MNGLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLSPVDYQOLGNVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 120  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYPEVFGKPYQKGPQGOEVKTDK 329  
QY 121 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 163  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
330 SWAKALSKPDDGDMTPASMEQFNKAKGMIKRPMDGTGNGNLQ 372

RESULT 10  
PCT-US93-06243-2  
;/ Sequence 2, Application PC/TUS9306243  
;/ GENERAL INFORMATION:  
;/ APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.  
;/ APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby  
;/ TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants  
;/ NUMBER OF SEQUENCES: 5  
;/ CORRESPONDENCE ADDRESS:  
;/ ADDRESSEE: Yahwak & Associates  
;/ STREET: 25 Skytop Drive  
;/ CITY: Trumbull  
;/ STATE: Connecticut  
;/ COUNTRY: USA  
;/ ZIP: 06611  
;/ COMPUTER READABLE FORM:  
;/ MEDIUM TYPE: floppy disk  
;/ COMPUTER: Macintosh  
;/ OPERATING SYSTEM: MS-DOS  
;/ SOFTWARE: Microsoft Word 4.0  
;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: PCT/US93/06243  
;/ FILING DATE: 19930630  
;/ CLASSIFICATION:  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: 907,935  
;/ FILING DATE: 01-JUL-1992  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: George M. Yahwak  
;/ REGISTRATION NUMBER: 26,824  
;/ REFERENCE/DOCKET NUMBER: CRF D-1172  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (203)268-1951  
;/ TELEFAX: (203)268-1951  
;/ INFORMATION FOR SEQ ID NO: 2:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 385 amino acids  
;/ TYPE: amino acid  
;/ STRANDEDNESS: single  
;/ TOPOLOGY: linear  
;/ MOLECULE TYPE: peptide  
;/ PCT-US93-06243-2

Query Match 83.6%; Score 847; DB 5; Length 385;  
Best Local Similarity 98.8%; Pred. No. 6e-81;  
Matches 160; Conservative 1; Mismatches 1; Indels 0; Gaps 0;



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; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance in Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-1

Query Match 57.5%; Score 582; DB 2; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;

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QY 61 GIOALNDICTHRHSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDK 120
Db 205 ALSUSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264

QY 121 SWAKALSKPDDDGMTSPASMEQFNKAKGMIKRPAGDGTGNLQARGAGGSSLGIDAMMAG 180
Db 265 SWAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324

QY 181 DAINNALGKLGA 194
Db 325 DKIANMSLGLANA 338

RESULT 14
US-09-030-270A-1
; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
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; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-1

Query Match 57.5%; Score 582; DB 2; Length 338;
Best Local Similarity 59.8%; Pred. No. 3.6e-53;
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;

QY 1 MNGLSQLLNGGLGGGGNAGTGLDSSLGKGLNLGSPVDYQOLGNVGTGIGMKA 60
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QY 61 GIOALNDICTHRHSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYKPGQGVKTDK 120
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QY 121 SWAKALSKPDDDGMTSPASMEQFNKAKGMIKRPAGDGTGNLQARGAGGSSLGIDAMMAG 180
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QY 181 DAINNALGKLGA 194
Db 325 DKIANMSLGLANA 338

RESULT 15
US-09-118-959-2
; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 49.1311 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_210\_403

Perfect score: 1013

Sequence: 1 MGNGLSQLNGGLGGGGG.....DAMMAGDAINNALGKLGAA 194

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA:\*

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- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pdb.p\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1013	100.0	403	9	US-09-835-684-3
3	1013	100.0	403	9	US-09-880-371-3
4	1013	100.0	403	9	US-09-879-248-3
5	1013	100.0	403	9	US-09-770-693-3
6	1013	100.0	403	10	US-09-766-348-3
7	1013	100.0	403	12	US-10-387-806-23
8	1013	100.0	403	15	US-10-034-158-3
9	1013	100.0	403	15	US-10-010-390-3
10	582	57.5	338	9	US-09-835-684-1
11	582	57.5	338	9	US-09-880-371-1
12	582	57.5	338	9	US-09-879-248-1
13	582	57.5	338	9	US-09-770-693-1
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18	582	57.5	338	15	US-10-010-390-1
19	114	11.3	484	11	US-09-820-843A-19
20	107.5	10.6	406	15	US-10-156-761-14828
21	104	10.3	477	12	US-10-307-389-5
22	104	10.3	906	12	US-10-307-389-6
23	103	10.2	341	9	US-09-086-118-25
24	103	10.2	341	9	US-09-835-684-7
25	103	10.2	341	9	US-09-880-371-7
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27	103	10.2	341	9	US-09-770-693-5
28	103	10.2	341	12	US-10-387-806-25
29	103	10.2	341	15	US-10-034-158-5
30	103	10.2	341	15	US-10-010-390-7
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32	100.5	9.9	468	12	US-10-307-389-4
33	99	9.8	479	10	US-09-918-951-3
34	97	9.6	702	12	US-10-161-051-18
35	95.5	9.4	651	9	US-09-861-597-1
36	95.5	9.4	651	12	US-10-414-760-1
37	95.5	9.4	775	15	US-10-156-761-12824
38	95	9.4	400	15	US-10-156-761-12096
39	94	9.3	314	9	US-09-849-967A-3
40	94	9.3	320	12	US-10-341-434-59
41	93.5	9.2	321	15	US-10-060-036-158
42	93.5	9.2	334	9	US-09-925-301-1363
43	93.5	9.2	537	15	US-10-179-038-8
44	93.5	9.2	943	10	US-09-996-634-131
45	93.5	9.2	943	11	US-09-997-182-131

ALIGNMENTS

RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:

; APPLICANT: Laby, Ronald J.

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

; TITLE OF INVENTION: THEREOF

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC Compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/086,118

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/048,109

; FILING DATE: 30-MAY-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1301

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 1013; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDDK 120  
DB 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDDK 329  
QY 121 SWAKALSKEPDDGGMTFASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
DB 330 SWAKALSKEPDDGGMTFASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGA 194  
DB 390 DAINNMALGKLGA 403

RESULT 2  
US-09-835-684-3  
Sequence 3, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
TITLE OF INVENTION: DESICCATION  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
PRIOR FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 1013; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDDK 120  
DB 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYEVFGKPYQKPGQGVKTDDK 329  
QY 121 SWAKALSKEPDDGGMTFASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
DB 330 SWAKALSKEPDDGGMTFASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGA 194  
DB 390 DAINNMALGKLGA 403

RESULT 3  
US-09-880-371-3  
Sequence 3, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: DeRoche, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
TITLE OF INVENTION: PLANTS  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880,371  
CURRENT FILING DATE: 2001-06-13  
PRIOR APPLICATION NUMBER: 60/211,585  
PRIOR FILING DATE: 2000-06-15  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-880-371-3

Query Match 100.0%; Score 1013; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAVGTGIGMKA 60  
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DB 330 SWAKALSKEPDDGGMTFASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGA 194  
DB 390 DAINNMALGKLGA 403

RESULT 4  
US-09-879-248-3  
Sequence 3, Application US/09879248  
Patent No. US20020062500A1  
GENERAL INFORMATION:  
APPLICANT: Fan, Hao  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
TITLE OF INVENTION: THEREOF  
FILE REFERENCE: 21829/81  
CURRENT APPLICATION NUMBER: US/09/879,248  
CURRENT FILING DATE: 2001-06-12  
PRIOR APPLICATION NUMBER: 60/212,211  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 1013; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAVGTGIGMKA 60  
DB 210 MGNGLSOLLGNGGLGGGQGNAGTGLDSSLGKGLQNLSPVDYQOLGNVAVGTGIGMKA 269



Db 210 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 329  
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 5

US-09-770-693-3  
; Sequence 3, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, David W.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 1013; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60  
Db 210 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 329  
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 6

US-09-766-348-3  
; Sequence 3, Application US/09766348  
; Patent No. US2002011673A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207

; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-766-348-3

Query Match 100.0%; Score 1013; DB 10; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60  
Db 210 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 329  
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 7

US-10-387-806-23  
; Sequence 23, Application US/10387806  
; Publication No. US20030182683A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF  
; FILE REFERENCE: 19603/3187  
; CURRENT APPLICATION NUMBER: US/10/387,806  
; CURRENT FILING DATE: 2003-03-12  
; PRIOR APPLICATION NUMBER: 60/048,109  
; PRIOR FILING DATE: 1997-05-30  
; PRIOR APPLICATION NUMBER: 09/086,118  
; PRIOR FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-387-806-23

Query Match 100.0%; Score 1013; DB 12; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 60  
Db 210 MGNLSQLLNGGLGGGCGGNAGTGLDSSLGKGLQNLGSPVDYQOLGNAVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKPGQGVKTDDK 329  
QY 121 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKPDDDDGTMTPASMEQFNKAKGMIKRPWAGDTGNLQARGAGSSSLGIDAMMAG 389

QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 8

US-10-034-158-3  
; Sequence 3, Application US/10034158  
; Publication No. US20030028918A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
; FILE REFERENCE: 21829/230  
; CURRENT APPLICATION NUMBER: US/10/034,158  
; CURRENT FILING DATE: 2001-12-20  
; PRIOR FILING DATE: 2001-12-20  
; PRIOR APPLICATION NUMBER: 09/597,840  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: 09/013,587  
; PRIOR FILING DATE: 1998-01-26  
; PRIOR APPLICATION NUMBER: 60/036,048  
; PRIOR FILING DATE: 1997-01-27  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-034-158-3

Query Match 100.0%; Score 1013; DB-15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNLSQLLNGGLGGGGGAGNAGTGLDSSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 60  
Db 210 MGNLSQLLNGGLGGGGGAGNAGTGLDSSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYEVFGKPOYQKPGQGVKTDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYEVFGKPOYQKPGQGVKTDK 329  
QY 121 SWAKALSKEPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKEPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 9

US-10-010-390-3  
; Sequence 3, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 1013; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3e-87;  
Matches 194; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGNLSQLLNGGLGGGGGAGNAGTGLDSSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 60  
Db 210 MGNLSQLLNGGLGGGGGAGNAGTGLDSSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 269  
QY 61 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYEVFGKPOYQKPGQGVKTDK 120  
Db 270 GIOALNDIGTHRHSSSTRSFVNKGDRAMAKEIGQFMDQYEVFGKPOYQKPGQGVKTDK 329  
QY 121 SWAKALSKEPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMMAG 180  
Db 330 SWAKALSKEPDDGDMTPASMEQFNKAKGMIKRPWAGDTGNGNLQARGAGSSSLGIDAMMAG 389  
QY 181 DAINNMALGKLGAA 194  
Db 390 DAINNMALGKLGAA 403

## RESULT 10

US-09-086-118-21  
; Sequence 21, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 57.5%; Score 582; DB 9; Length 338;  
Best Local Similarity 59.8%; Pred. No. 9.8e-47;  
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;  
QY 1 MGNLSQLLNGGLGGGGGAGNAGTGLDSSSLGKGLQNLGSPVDYQQLGNVGTGIGMKA 60

Db 151 VNNALSSILGNG-----LQOSMSGFSQPSLGGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204  
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQOEVKTDK 120  
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264  
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAGMIKRPMDAGDTGNLQARAGAGSSLGIDAMMAG 180  
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324  
Qy 181 DAINNMALGKLGAA 194  
Db 325 DKIANMSLGLKLANA 338

RESULT 11  
US-09-835-684-1  
; Sequence 1, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Giu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-835-684-1

Query Match 57.5%; Score 582; DB 9; Length 338;  
Best Local Similarity 59.8%; Pred. No. 9.8e-47;  
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;  
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNNAVGTGIGMKA 60  
Db 151 VNNALSSILGNG-----LQOSMSGFSQPSLGGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204  
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQOEVKTDK 120  
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264  
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAGMIKRPMDAGDTGNLQARAGAGSSLGIDAMMAG 180  
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324  
Qy 181 DAINNMALGKLGAA 194  
Db 325 DKIANMSLGLKLANA 338

RESULT 12  
US-09-880-371-1  
; Sequence 1, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13

; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-880-371-1

Query Match 57.5%; Score 582; DB 9; Length 338;  
Best Local Similarity 59.8%; Pred. No. 9.8e-47;  
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;  
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNNAVGTGIGMKA 60  
Db 151 VNNALSSILGNG-----LQOSMSGFSQPSLGGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204  
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQOEVKTDK 120  
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264  
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAGMIKRPMDAGDTGNLQARAGAGSSLGIDAMMAG 180  
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324  
Qy 181 DAINNMALGKLGAA 194  
Db 325 DKIANMSLGLKLANA 338

RESULT 13  
US-09-879-248-1  
; Sequence 1, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-879-248-1

Query Match 57.5%; Score 582; DB 9; Length 338;  
Best Local Similarity 59.8%; Pred. No. 9.8e-47;  
Matches 116; Conservative 22; Mismatches 50; Indels 6; Gaps 1;  
Qy 1 MGNGLSOLLGNGGLGGGGGAGTGLDSSLGKGLQNLGSPVDYQQLGNNAVGTGIGMKA 60  
Db 151 VNNALSSILGNG-----LQOSMSGFSQPSLGGAGGLQGLSGAGAFNQLGNAIGMGVQNA 204  
Qy 61 GIOALNDIGTHRHSSSTRSFVNKGDRAWAKEIGQFMDQYPEVFGKPOYQKGPQOEVKTDK 120  
Db 205 ALSALSNVSTHVDGNRRHFVDKEDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDK 264  
Qy 121 SWAKALSKPDDDDGTMTPASMEQFNKAGMIKRPMDAGDTGNLQARAGAGSSLGIDAMMAG 180  
Db 265 SWAKALSKPDDDDGTMTCASMDKFRQAMGMIKSAVAGDTGNTNLNLRGAGGASLGIDAAVVG 324  
Qy 181 DAINNMALGKLGAA 194  
Db 325 DKIANMSLGLKLANA 338

[illegible]

Query Match	57.5%;	Score 582;	DB 9;	Length 338;
Best Local Similarity	59.8%;	Pred. No. 9.8e-47;		
Matches 116;	Conservative 22;	Mismatches 50;	Indels 6;	Gaps 1;
QY	1	MGNLSQLLNGGLGGQGNAGTGLDGLSSLGKGLQNLSPVDYQQLGNAGVTGIGCWA	60	
DB	151	VNNALSILNG-----LQSMGSGFQPSLGAGGLQLSGAGFNOLGNAIMGVGCNA	204	
QY	61	GIOALNDIGTHRRSSTRSFYNKGDRAMAKEIGQFMDQYPEVFGKPYQKQPGQEVKTTDDK	120	
DB	205	ALSALSNVSTHVDPGNRRHFVDKEDRGWAKKEIGQFMDQYPEIFGKPEYQKDGWSSPKTTDDK	264	
QY	121	SWAKALSKPDDCGMTFASMEQENKAKGMIKEPWAGDTGNGLNQARGAGGSSLGIDAMWAG	180	
DB	265	SWAKALSKPDDCGMTGASMDKFRQAMGMIKSAVAGDTGNTNLNRGAGGASLGIDAAVVG	324	
QY	181	DAINNMGKLGAA	194	
DB	325	DKIANNSLGKLANA	338	

RESULT 15  
US-09-766-348-1  
; Sequence 1, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-766-348-1

Query Match	57.5%;	Score 582;	DB 10;
Best Local Similarity	59.8%;	Pred. No. 9.8e-47;	Length 338;
Matches 116;	Conservative	22;	Mismatches 50;
			Indels 6;
			Gaps 1;

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 27.7578 Seconds  
(without alignments)  
358.208 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_169\_403

Perfect score: 1225

Sequence: 1 MQSLFQDGDGTQGSSEGGK.....DAMAGDAINNALGKLGAA 235

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfileesl.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1225	100.0	403	2	US-09-030-270A-3
3	1225	100.0	403	3	US-08-851-376A-2
4	1225	100.0	403	3	US-08-984-207-3
5	1225	100.0	403	3	US-09-013-587-3
6	1225	100.0	403	4	US-09-086-118-23
7	1074	87.7	385	1	US-08-891-254-3
8	1074	87.7	385	2	US-08-819-539-3
9	1074	87.7	385	5	PCT-US96-08819-3
10	1059	86.4	385	5	PCT-US93-06243-2
11	621	50.7	338	1	US-08-891-254-1
12	621	50.7	338	2	US-08-484-358-2
13	621	50.7	338	2	US-08-819-539-1
14	621	50.7	338	2	US-09-030-270A-1
15	621	50.7	338	3	US-09-118-959-2
16	621	50.7	338	3	US-08-984-207-1
17	621	50.7	338	3	US-09-013-587-1
18	621	50.7	338	4	US-09-086-118-21
19	621	50.7	338	5	PCT-US96-08819-1
20	137.5	11.2	1127	3	US-09-150-460B-11
21	120	9.8	651	3	US-08-556-978B-19
22	120	9.8	651	3	US-09-247-806-1
23	120	9.8	718	1	US-08-425-069-2
24	120	9.8	718	2	US-08-317-844B-2
25	120	9.8	747	3	US-09-034-177-3
26	117	9.6	679	3	US-08-913-942-15
27	117	9.6	679	4	US-09-268-347-26

28	112.5	9.2	341	1	US-08-062-024B-5	Sequence 5, Appli
29	112.5	9.2	341	1	US-08-891-254-5	Sequence 5, Appli
30	112.5	9.2	341	2	US-08-756-407-5	Sequence 5, Appli
31	112.5	9.2	341	2	US-08-819-539-5	Sequence 5, Appli
32	112.5	9.2	341	2	US-09-030-270A-5	Sequence 5, Appli
33	112.5	9.2	341	3	US-08-984-207-5	Sequence 5, Appli
34	112.5	9.2	341	3	US-09-013-587-5	Sequence 5, Appli
35	112.5	9.2	341	4	US-09-086-118-25	Sequence 25, Appli
36	112.5	9.2	341	5	PCT-US94-05014-5	Sequence 5, Appli
37	112.5	9.2	341	5	PCT-US96-08819-5	Sequence 5, Appli
38	112.5	9.2	464	4	US-09-252-991A-24883	Sequence 24883, A
39	111.5	9.1	318	3	US-09-060-756-727	Sequence 727, App
40	111.5	9.1	318	4	US-09-670-314-727	Sequence 727, App
41	111	9.1	334	3	US-09-060-756-728	Sequence 728, App
42	111	9.1	334	4	US-09-670-314-728	Sequence 728, App
43	110	9.0	604	3	US-08-556-978B-63	Sequence 63, Appl
44	110	9.0	606	3	US-08-556-978B-23	Sequence 23, Appl
45	110	9.0	606	3	US-09-247-806-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1  
US-08-200-724A-2  
; Sequence 2, Application US/08200724A  
; Patent No. 5849868  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron J  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; NUMBER OF SEQUENCES: 5  
; TITLE OF INVENTION: IN PLANTS  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/200,724A  
FILING DATE: 23-FEB-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10030  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-200-724A-2

Query Match 100.0%; Score 1225; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60  
Db 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228  
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
Db 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAKAIQGFMDQYEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 180  
Db 289 VNKGDRAKAIQGFMDQYEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 348  
QY 181 EQFNKAKGMIKRPWAGDTGNGLQARGAGSSSLGIDAMMAGDAINNMAKLGKAA 235  
Db 349 EQFNKAKGMIKRPWAGDTGNGLQARGAGSSSLGIDAMMAGDAINNMAKLGKAA 403

## RESULT 2

US-09-030-270A-3  
; Sequence 3, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514

PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1521  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-09-030-270A-3

Query Match 100.0%; Score 1225; DB 2; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60  
Db 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228  
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
Db 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288

QY 121 VNKGDRAKAIQGFMDQYEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 180  
Db 289 VNKGDRAKAIQGFMDQYEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 348  
QY 181 EQFNKAKGMIKRPWAGDTGNGLQARGAGSSSLGIDAMMAGDAINNMAKLGKAA 235  
Db 349 EQFNKAKGMIKRPWAGDTGNGLQARGAGSSSLGIDAMMAGDAINNMAKLGKAA 403

## RESULT 3

US-08-851-376A-2  
; Sequence 2, Application US/08851376A  
; Patent No. 6174717  
; GENERAL INFORMATION:

; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Bauer, David W.  
; APPLICANT: Collmer, Alan  
; APPLICANT: He, Sheng-Yang  
; APPLICANT: Laby, Ron  
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
; TITLE OF INVENTION: IN PLANTS  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon Peabody LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: NY  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/851,376A  
; FILING DATE: 05-MAY-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/200,724  
; FILING DATE: 23-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/10035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

US-08-851-376A-2

Query Match 100.0%; Score 1225; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 60  
Db 169 MQSLFGDGDGTQSSSGGKQPTGEQNAKYGKVTDALSGLMGNGLSOLLNGSLGGGQ 228  
QY 61 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
Db 229 GNAGTGLDSSSLGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAKAIQGFMDQYEVFGKPOYQKPGQEVKTDKSWAKALSKPDDDDGMPASM 180

Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMTTASM 348  
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 235  
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 403

RESULT 4  
US-08-984-207-3  
; Sequence 3, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/984,207  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/033,230  
; FILING DATE: 05-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1201  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 1225; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNGLSQLLNGGLGGGQ 60  
Db 169 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDGSLSGKGLQNLGSPVDYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120  
Db 229 GNAGTGLDGSLSGKGLQNLGSPVDYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMTTASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMTTASM 348  
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 235  
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 403

RESULT 5  
US-09-013-587-3  
; Sequence 3, Application US/09013587  
; Patent No. 6277814  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/013,587  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/036,048  
; FILING DATE: 27-JAN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1501  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-013-587-3

Query Match 100.0%; Score 1225; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNGLSQLLNGGLGGGQ 60  
Db 169 MOSLFGDGDGTGSSSGGKQPTGEQNAKKGVTDALSGLMGNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDGSLSGKGLQNLGSPVDYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120  
Db 229 GNAGTGLDGSLSGKGLQNLGSPVDYQOLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMTTASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGMTTASM 348  
QY 181 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 235  
Db 349 EQFNKAKGMIKRPWAGDTGNGNLQARGAGSSIGIDAMMAGDAINNMALGKLGA 403

RESULT 6  
US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF  
TITLE OF INVENTION: 30  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 1225; DB 4; Length 403;  
Best Local Similarity 100.0%; Pred. No. 2e-113;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFQGDGDTGQSSSGGKQPTGEGQNAKKGVTDLASGLMGNLSQLLNGGLGGGQ 60  
DB 169 MOSLFQGDGDTGQSSSGGKQPTGEGQNAKKGVTDLASGLMGNLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGTMTPASM 180  
DB 289 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGTMTPASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNGNLQARAGGSSIGIDAMMAGDANNMALGKLGA 235  
DB 349 EQFNKAKGMIKRPMDGTGNGNLQARAGGSSIGIDAMMAGDANNMALGKLGA 403

RESULT 7  
US-08-891-254-3  
Sequence 3, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hyper-sensitive Response  
TITLE OF INVENTION: Induced Resistance In Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-3

Query Match 87.7%; Score 1074; DB 1; Length 385;  
Best Local Similarity 100.0%; Pred. No. 1.7e-98;  
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFQGDGDTGQSSSGGKQPTGEGQNAKKGVTDLASGLMGNLSQLLNGGLGGGQ 60  
DB 169 MOSLFQGDGDTGQSSSGGKQPTGEGQNAKKGVTDLASGLMGNLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGTMTPASM 180  
DB 289 VNKGDRAMAKIQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSKPDDGTMTPASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNGNLQ 204  
DB 349 EQFNKAKGMIKRPMDGTGNGNLQ 372

RESULT 8  
US-08-819-539-3  
Sequence 3, Application US/08819539  
Patent No. 5859324  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hyper-sensitive Response  
TITLE OF INVENTION: Induced Resistance In Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:



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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-3

Query Match      87.7%; Score 1074; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MQSLFGDGDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
DB      169  MQSLFGDGDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228

QY      61  GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB      229  GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY      121  VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 180
DB      289  VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 348

QY      181  EGFNKAKGMIKRPMAGDTGNGNLQ 204
DB      349  EGFNKAKGMIKRPMAGDTGNGNLQ 372

RESULT 9
PCT-US96-08819-3
; Sequence 3, Application PC/TUS9608819
; GENERAL INFORMATION:
; APPLICANT: Cornell Research Foundation, Inc.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/08819
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: US 08/475,775
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10051
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US96-08819-3

Query Match      87.7%; Score 1074; DB 5; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.7e-98;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MQSLFGDGDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 60
DB      169  MQSLFGDGDGTGQSSSGGKQPTGEGQNAKKGVTDALSGLMGNGLSOLLNGGLGGGQ 228

QY      61  GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
DB      229  GNAGTGLDSSLGKGLQNLGSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288

QY      121  VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 180
DB      289  VNKGDRAMAKEIGQFMDQYPEVFGKPYQKPGQEVKTDDKSWAKALSKPDDGDMTPASM 348

QY      181  EGFNKAKGMIKRPMAGDTGNGNLQ 204
DB      349  EGFNKAKGMIKRPMAGDTGNGNLQ 372

RESULT 10
PCT-US93-06243-2
; Sequence 2, Application PC/TUS9306243
; GENERAL INFORMATION:
; APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.
; APPLICANT: Beer, Alan Collmer, Sheng-Yang He, and Ron J. Laby
; TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06243
; FILING DATE: 19930630
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 907,935
; FILING DATE: 01-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1172
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951

```

```

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 385 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-06243-2

Query Match      86.4%; Score 1059; DB 5; Length 385;
Best Local Similarity 99.0%; Pred. No. 5.3e-97;
Matches 201; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MQSLFGDGDGTQSSSGGKQPTGEQYKKGVTDALSGLMGNGLSOLLNGGLGGGOG 60
Db 169 MQSLFGDGDGTQSSSGGKQPTGEQYKKGVTDALSGLMGNGLSOLLNGGLGGGOG 228
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVGTGIGMKAGTQALNDIGTHRHSSSTRSF 120
Db 229 GNAGTGLDSSSLGGKGLRGLSPVDYQQLGNVGTGIGMKAGTQALNDIGTHRHSSSTRSF 288
QY 121 VNKGDRAKAIKQFNDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGTMTPAS 180
Db 289 VNKGDRAKAIKQFNDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDDDGTMTPAS 348
QY 181 EQFNKAKGMKRPAGDTGNGL 203
Db 349 EQFNKAKGMKRPAGDTGNGL 371

RESULT 11
US-08-891-254-1
; Sequence 1, Application US/08891254
; Patent No. 5776889
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein

Query Match      50.7%; Score 621; DB 2; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQYKKGVTDALSGLMGNGLSOLLNGGLGGGOGNAGTGLDSSSLGG 74
Db 132 SMLNASQMTQGNMNAFGSGVNNALSILNGLGQSM-----SGFSQPSLGA 177

US-08-891-254-1
Query Match      50.7%; Score 621; DB 1; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQYKKGVTDALSGLMGNGLSOLLNGGLGGGOGNAGTGLDSSSLGG 74
Db 132 SMLNASQMTQGNMNAFGSGVNNALSILNGLGQSM-----SGFSQPSLGA 177

US-08-484-358-2
; Sequence 2, Application US/08484358
; Patent No. 5850015
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collmer, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor
; TITLE OF INVENTION: From
; TITLE OF INVENTION: Erwinia Chryseanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,358
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; MOLECULE TYPE: protein

US-08-484-358-2
Query Match      50.7%; Score 621; DB 2; Length 338;
Best Local Similarity 56.1%; Pred. No. 1.2e-53;
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;

QY 15 SSSGGKQPTGEQYKKGVTDALSGLMGNGLSOLLNGGLGGGOGNAGTGLDSSSLGG 74
Db 132 SMLNASQMTQGNMNAFGSGVNNALSILNGLGQSM-----SGFSQPSLGA 177
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RESULT 15  
US-09-118-959-2  
; Sequence 2, Application US/09118959  
; Patent No. 6001959  
; GENERAL INFORMATION:  
; APPLICANT: Bauer, David  
; APPLICANT: Collmer, Alan  
; TITLE OF INVENTION: Hypersensitive Response Elicitor From  
; TITLE OF INVENTION: Erwinia Chrysanthemi  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/118,959  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/840  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 716-263-1304  
; TELEFAX: 716-263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-118-959-2

Query Match 50.7%; Score 621; DB 3; Length 338;  
Best Local Similarity 56.1%; Pred. No. 1.2e-53;  
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;  
  
QY 15 SSSGGKQPTGEONAYKGVTDALSGLMGNGLSOLLGNGLGQGGQGNAGTGLDSSSLGG 74  
DB 132 SMLNASQMTQGNMNFQSGVNNALSSILGNLQSM-----SGFSPQSLGA 177  
  
QY 75 KGLNLGSPVDYQOLGNVGTGIMKAGTQALNDIGTHRHSSSTRFVNKGDRAKKEIGQ 134  
DB 178 GGLQLGSLGAGAFNQLGNAIGMVGQNAALSALSNVSTHVDGNNRHFVDKEDRGMAKEIGQ 237  
  
QY 135 FMDQYEVFGKPOYKQGPQGVKTDKSWAKALS KPD DDDGTPASMEQFNKAKGMIKRPM 194  
DB 238 FMDQYPEIFGKPEYQKDGSSPKTDDKSWAKALS KPD DDDGTPASMEQFNKAKGMIKRPM 194  
  
QY 195 AGDTGNNGNIQARGAGSSIGIDAMMAGDAINNMLGKLGA 235  
DB 298 AGDTGNNTNLNRGAGGASLGIDAAVVGDKIANNMLGKLANA 338

Search completed: January 20, 2004, 14:57:57  
Job time : 28.7578 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 59.5145 Seconds  
(without alignments)  
807.418 Million cell updates/sec

Title: US-09-412-100-23\_COPY\_169\_403

Perfect score: 1225

Sequence: 1 MQLRFGDQGTGGSSGK.....DAMMAGDAINNVALGKLGA 235

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US05\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1225	100.0	403	9	US-09-086-118-23
2	1225	100.0	403	9	US-09-835-684-3
3	1225	100.0	403	9	US-09-880-371-3
4	1225	100.0	403	9	US-09-879-248-3
5	1225	100.0	403	9	US-09-770-693-3
6	1225	100.0	403	10	US-09-766-348-3
7	1225	100.0	403	12	US-10-387-806-23
8	1225	100.0	403	15	US-10-034-158-3
9	1225	100.0	403	15	US-10-010-390-3
10	621	50.7	338	9	US-09-835-684-1
11	621	50.7	338	9	US-09-880-371-1
12	621	50.7	338	9	US-09-879-248-1
13	621	50.7	338	9	US-09-770-693-1
14	621	50.7	338	10	US-09-766-348-1
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16	621	50.7	338	12	US-10-387-806-21
17	621	50.7	338	15	US-10-034-158-1
18	621	50.7	338	15	US-10-010-390-1
19	137	11.2	484	11	US-09-820-843A-19
20	128.5	10.5	1079	11	US-09-820-843A-20
21	120.5	9.8	716	15	US-10-156-761-15050
22	120	9.8	651	9	US-09-861-597-1
23	120	9.8	651	12	US-10-414-760-1
24	117	9.6	406	15	US-10-156-761-14828
25	116	9.5	1142	12	US-09-976-782-92
26	113	9.2	913	12	US-09-976-782-94
27	113	9.2	1142	12	US-09-976-782-93
28	113	9.2	1142	12	US-09-976-782-95
29	112.5	9.2	341	9	US-09-086-118-25
30	112.5	9.2	341	9	US-09-835-684-7
31	112.5	9.2	341	9	US-09-880-371-7
32	112.5	9.2	341	9	US-09-879-248-11
33	112.5	9.2	341	9	US-09-770-693-5
34	112.5	9.2	341	12	US-10-387-806-25
35	112.5	9.2	341	15	US-10-034-158-5
36	112.5	9.2	341	15	US-10-010-390-7
37	111.5	9.1	318	12	US-10-259-678-727
38	111	9.1	334	12	US-10-259-678-728
39	110	9.0	606	9	US-09-861-597-8
40	110	9.0	606	9	US-09-861-597-6
41	110	9.0	809	12	US-10-414-760-13
42	110	9.0	818	12	US-10-414-760-22
43	110	9.0	1617	12	US-10-414-760-14
44	110	9.0	1626	12	US-10-414-760-24
45	110	9.0	2338	12	US-10-029-386-31982

ALIGNMENTS

RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 1225; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 60  
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 180  
DB 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235  
DB 349 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

RESULT 2  
US-09-835-684-3  
Sequence 3, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
TITLE OF INVENTION: DESICCATION  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
PRIOR FILING DATE: 2001-04-16  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 1225; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 60  
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 180  
DB 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235  
DB 349 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

## RESULT 3

US-09-880-371-3  
Sequence 3, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Derocher, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
TITLE OF INVENTION: PLANTS  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880,371  
PRIOR FILING DATE: 2001-06-13  
PRIOR FILING DATE: 2000-06-15  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-880-371-3

Query Match 100.0%; Score 1225; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 60  
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 180  
DB 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235  
DB 349 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

## RESULT 4

US-09-879-248-3  
Sequence 3, Application US/09879248  
Patent No. US20020062500A1  
GENERAL INFORMATION:  
APPLICANT: Fan, Hao  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
TITLE OF INVENTION: THEREOF  
FILE REFERENCE: 21829/81  
CURRENT APPLICATION NUMBER: US/09/879,248  
PRIOR FILING DATE: 2001-06-12  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 1225; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 60  
DB 169 MOSLFGDGDGTQSSSGGKQPTGEQYAYKGVTDALSGLMNGLSQLLNGGLGGGQ 228  
QY 61 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 120  
DB 229 GNAGTGLDSSSLGGKQLNLSGPDYQQLGNVGTGIGMKAGIQALNDIGTHRHSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 180  
DB 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGWTPTASM 348  
QY 181 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 235  
DB 349 EQFNKAKGMIKRPMDGTGNLQARGAGSSSLGIDAMMAGDAINNMGKLGAA 403

Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120  
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348  
QY 181 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 235  
Db 349 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 403

## RESULT 5

US-09-770-693-3  
; Sequence 3, Application US/09770693  
; Patent No. US2002006943A1  
; GENERAL INFORMATION:  
; APPLICANT: Bauer, David W.  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 1225; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103; Indels 0; Gaps 0;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 60  
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120  
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348  
QY 181 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 235  
Db 349 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 403

## RESULT 6

US-09-766-348-3  
; Sequence 3, Application US/09766348  
; Patent No. US2002011673A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207

; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-766-348-3

Query Match 100.0%; Score 1225; DB 10; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103; Indels 0; Gaps 0;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 60  
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120  
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348  
QY 181 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 235  
Db 349 EGFNKAAGMIKRPMDGTGNGNLQARGAGSSIGIDAMMAGDAINNMAKLGKAA 403

## RESULT 7

US-10-387-806-23  
; Sequence 23, Application US/10387806  
; Publication No. US20030182683A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ron J.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF  
; FILE REFERENCE: 19603/3187  
; CURRENT APPLICATION NUMBER: US/10/387,806  
; CURRENT FILING DATE: 2003-03-12  
; PRIOR APPLICATION NUMBER: 60/048,109  
; PRIOR FILING DATE: 1997-05-30  
; PRIOR APPLICATION NUMBER: 09/086,118  
; PRIOR FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-387-806-23

Query Match 100.0%; Score 1225; DB 12; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.1e-103; Indels 0; Gaps 0;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 60  
Db 169 MOSLFGDGDGTGGSSGGKQPTGEQONAYKKGVTDALSGLMGNLSQLLNGGLGGGOG 228  
QY 61 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 120  
Db 229 GNAGTGLDSSSLGGKGLQNLSPVDYQQLGNVAVGTGIGMKAGIQALNDIGTTHRSSTRSF 288  
QY 121 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 180  
Db 289 VNKGDRAMAKEIQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSKPDDGDMTPASM 348

[illegible]

```

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

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Query Match	100.0%	Score	1225;	DB	15;	Length	403;
Best Local Similarity	100.0%	Pred. No.	3.1e-103;				
Matches	235;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	MSLFGDQDGTQSSSGKQPTGEQNAVYKGYTDALSGLMGNGLSQLLNGGLGGGQ	60				
Db	169	MSLFGDQDGTQSSSGKQPTGEQNAVYKGYTDALSGLMGNGLSQLLNGGLGGGQ	228				
Qy	61	GNAGTGLDGSLSGKGKQLNLSGPVDYQOLGNNAVGTGIGMKAGIQALNDIGTHRRHSSTRSF	120				
Db	229	GNAGTGLDGSLSGKGKQLNLSGPVDYQOLGNNAVGTGIGMKAGIQALNDIGTHRRHSSTRSF	288				
Qy	121	VNKGDRAMAKIEIGQFMQDQYFVFGKPYQKPGQGVKTTDDKSKAKALS KPD DDCGWT PASM	180				
Db	289	VNKGDRAMAKIEIGQFMQDQYFVFGKPYQKPGQGVKTTDDKSKAKALS KPD DDCGWT PASM	348				
Qy	181	EQFNKAKGMIKRPMWAGDTGNGLNQARGAGSSSLGIDAMMAGDANNMALGKLGA	235				
Db	349	EQFNKAKGMIKRPMWAGDTGNGLNQARGAGSSSLGIDAMMAGDANNMALGKLGA	403				

RESULT 9  
 US-10-010-390-3  
 ; Sequence 3, Application US/10010390  
 ; Publication No. US20030104979A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Leon, Ernesto  
 ; APPLICANT: Oviado, Agustín  
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
 ; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
 ; FILE REFERENCE: 21829/111  
 ; CURRENT APPLICATION NUMBER: US/10/010,390  
 ; CURRENT FILING DATE: 2001-11-05  
 ; PRIOR APPLICATION NUMBER: 60/248,169  
 ; PRIOR FILING DATE: 2000-11-13  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 US-10-010-390-3

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Query Match      100.0%; Score 1225; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.le-103;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MOSLFQDGDGDTQGSSSGKQPTGEQNAKKGVTDALSGLWMGNCLSQLLGNGLGGGQG 60
      |||
Db      169 MOSLFQDGDGDTQGSSSGKQPTGEQNAKKGVTDALSGLWMGNCLSQLLGNGLGGGQG 228
      |||

QY      61  GNAGTGLDGSSTGGKGLQNLSPVDYQQLGNAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 120
      |||
Db      229 GNAGTGLDGSSTGGKGLQNLSPVDYQQLGNAVGTGIGMKAGIQALNDIGTHRHSSSTRSF 288
      |||

QY      121 VNKGDRAMAKETIQFMDQYPEVFQKPYQKPGQEVKTTDDKSWAKALSKPDDDGMTPA 180
      |||
Db      289 VNKGDRAMAKETIQFMDQYPEVFQKPYQKPGQEVKTTDDKSWAKALSKPDDDGMTPA 348
      |||

QY      181 EQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNHALGKLGA 235
      |||
Db      349 EQFNKAKGMIKRPMAAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNHALGKLGA 403
      |||

RESULT 10
US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. US20010011380A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; TITLE OF INVENTION: THEREOF

```



Db 132 SMLNASQMTQGNNAFSGVNNALSLGNGLQSQM-----SGFSQPSLGA 177  
Qy 75 KGLQNLSPVDYQQLGNVGTGIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAIQ 134  
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSNSVTHVDGNNRHFDKEDRGMAKEIQ 237  
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 194  
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 297  
Qy 195 AGDTGNLQARGAGSSGIDMAGDAINNMALGKLGA 235  
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGLANA 338

## RESULT 11

US-09-835-684-1  
; Sequence 1, Application US/09835684  
; Patent No. US200201937A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-835-684-1

Query Match 50.7%; Score 621; DB 9; Length 338;  
Best Local Similarity 56.1%; Pred. No. 2.1e-48;  
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;  
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSLGMGNLSQLLNGGLGGGQGNAGTGLDGSLSG 74  
Db 132 SMLNASQMTQGNNAFSGVNNALSLGNGLQSQM-----SGFSQPSLGA 177  
Qy 75 KGLQNLSPVDYQQLGNVGTGIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAIQ 134  
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSNSVTHVDGNNRHFDKEDRGMAKEIQ 237  
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 194  
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 297  
Qy 195 AGDTGNLQARGAGSSGIDMAGDAINNMALGKLGA 235  
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGLANA 338

## RESULT 12

US-09-880-371-1  
; Sequence 1, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13

; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-880-371-1

Query Match 50.7%; Score 621; DB 9; Length 338;  
Best Local Similarity 56.1%; Pred. No. 2.1e-48;  
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;  
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSLGMGNLSQLLNGGLGGGQGNAGTGLDGSLSG 74  
Db 132 SMLNASQMTQGNNAFSGVNNALSLGNGLQSQM-----SGFSQPSLGA 177  
Qy 75 KGLQNLSPVDYQQLGNVGTGIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAIQ 134  
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSNSVTHVDGNNRHFDKEDRGMAKEIQ 237  
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 194  
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 297  
Qy 195 AGDTGNLQARGAGSSGIDMAGDAINNMALGKLGA 235  
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGLANA 338

## RESULT 13

US-09-879-248-1  
; Sequence 1, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-879-248-1

Query Match 50.7%; Score 621; DB 9; Length 338;  
Best Local Similarity 56.1%; Pred. No. 2.1e-48;  
Matches 124; Conservative 25; Mismatches 58; Indels 14; Gaps 1;  
Qy 15 SSSGGKQPTGEQONAYKKGVTDALSLGMGNLSQLLNGGLGGGQGNAGTGLDGSLSG 74  
Db 132 SMLNASQMTQGNNAFSGVNNALSLGNGLQSQM-----SGFSQPSLGA 177  
Qy 75 KGLQNLSPVDYQQLGNVGTGIGMKAGIOALNDIGTHRHSSSTRSFVNKGDRAKAIQ 134  
Db 178 GGLQGLSGAGAFNQLGNAIGMGVQNAALSNSVTHVDGNNRHFDKEDRGMAKEIQ 237  
Qy 135 FMDQYPEVFGKPYQYKQPGQEVKTDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 194  
Db 238 FMDQYPEIFGKPYQYKQDGWSSPKTDDKSWAKALSKPDDDDGTMTPASMEQFNKAKGMIK 297  
Qy 195 AGDTGNLQARGAGSSGIDMAGDAINNMALGKLGA 235  
Db 298 AGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGLANA 338



Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	99	100.0	403	9	US-09-086-118-23		Sequence 23, Appli
2	99	100.0	403	9	US-09-835-684-3		Sequence 3, Appli
3	99	100.0	403	9	US-09-880-371-3		Sequence 3, Appli
4	99	100.0	403	9	US-09-878-248-3		Sequence 3, Appli
5	99	100.0	403	9	US-09-770-693-3		Sequence 3, Appli
6	99	100.0	403	10	US-09-766-348-3		Sequence 3, Appli
7	99	100.0	403	12	US-10-387-806-23		Sequence 23, Appli
8	99	100.0	403	15	US-10-034-358-3		Sequence 3, Appli
9	99	100.0	403	15	US-10-010-390-3		Sequence 3, Appli
10	55	55.6	195	12	US-10-310-154-675		Sequence 675, Appli
11	55	55.6	1253	12	US-10-363-798-2		Sequence 2, Appli
12	54	54.5	754	15	US-10-153-668-254		Sequence 254, Appli
13	53.5	54.0	2344	9	US-09-815-242-12713		Sequence 12713, A
14	49	49.5	600	10	US-09-738-626-5197		Sequence 5197, Appli
15	49	49.5	1189	12	US-10-369-493-22159		Sequence 22159, A

INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 99; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.1e-05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSSD 20  
Db 137 STSQNDSTSGTSTSDSSD 156

## RESULT 2

US-09-835-684-3  
Sequence 3, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
TITLE OF INVENTION: DESICCATION  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
CURRENT FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 99; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.1e-05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSSD 20  
Db 137 STSQNDSTSGTSTSDSSD 156

## RESULT 3

US-09-880-371-3  
Sequence 3, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Derocher, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
TITLE OF INVENTION: PLANTS  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880,371  
CURRENT FILING DATE: 2001-06-13  
PRIOR APPLICATION NUMBER: 60/211,585  
PRIOR FILING DATE: 2000-06-15  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-880-371-3

Query Match 100.0%; Score 99; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.1e-05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSSD 20  
Db 137 STSQNDSTSGTSTSDSSD 156

## RESULT 4

US-09-879-248-3  
Sequence 3, Application US/09879248  
Patent No. US20020062500A1  
GENERAL INFORMATION:  
APPLICANT: Fan, Hao  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
TITLE OF INVENTION: THEREOF  
FILE REFERENCE: 21829/81  
CURRENT APPLICATION NUMBER: US/09/879,248  
CURRENT FILING DATE: 2001-06-12  
PRIOR APPLICATION NUMBER: 60/212,211  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 99; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.1e-05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSSD 20  
Db 137 STSQNDSTSGTSTSDSSD 156

## RESULT 5

US-09-770-693-3  
Sequence 3, Application US/09770693  
Patent No. US20020069434A1  
GENERAL INFORMATION:  
APPLICANT: Beer, Steven V.  
APPLICANT: Bauer, David W.  
TITLE OF INVENTION: OOMYCE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
FILE REFERENCE: 19603/2501  
CURRENT APPLICATION NUMBER: US/09/770,693  
CURRENT FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/178,565  
PRIOR FILING DATE: 2000-01-26  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 99; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1.1e-05;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSSD 20  
Db 137 STSQNDSTSGTSTSDSSD 156

## RESULT 6

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; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match          100.0%; Score 99; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDNSTSGTDSSTDSSD 20
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Db      137 STSQNDNSTSGTDSSTDSSD 156

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-3

Query Match          100.0%; Score 99; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 STSQNDNSTSGTDSSTDSSD 20
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Db      137 STSQNDNSTSGTDSSTDSSD 156

RESULT 10
US-10-310-154-675
; Sequence 675, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin

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/ GENERAL INFORMATION:
/
/ APPLICANT: Kong, Xiangyin
/
/ APPLICANT: Xiao, Shangxi
/
/ APPLICANT: Zhao, Guoping
/
/ APPLICANT: Yu, Chuan
/
/ APPLICANT: Hu, Lianbin
/
/ TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING DENTINGENESIS IMPERFECTA
/
/ TITLE OF INVENTION: TYPE II USING DENTIN STALOPHOSPHOPROTEIN GENE AND CODED
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/ TITLE OF INVENTION: PRODUCT THEREOF
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/ FILE REFERENCE: 9548.78USWO
/
/ CURRENT APPLICATION NUMBER: US/10/363,798
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RESULT 13  
US-09-815-242-12713  
; Sequence 12713, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlisen, Kari L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.

APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
TITLE OF INVENTION: Prokaryotes  
FILE REFERENCE: ELITRA.011a  
CURRENT APPLICATION NUMBER: US/09/815,242  
PRIOR FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 12713  
LENGTH: 2344  
TYPE: PRT  
ORGANISM: Staphylococcus aureus  
US-09-815-242-12713

Query Match 54.0%; Score 53.5; DB 9; Length 2344;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 14; Conservative 2; Mismatches 2; Indels 3; Gaps 1;

QY 1 STSQDNDSTSGTSTSDS 18  
DB 1094 STSQDNDSTSGTSTSDS 1114

RESULT 14  
US-09-738-626-5197  
Sequence 5197, Application US/09738626  
Publication No. US20020137605A1  
GENERAL INFORMATION:  
APPLICANT: NAKAGAWA, SATOSHI  
APPLICANT: MIZOGUCHI, HIROSHI  
APPLICANT: ANDO, SEIKO  
APPLICANT: HAYASHI, MIKIRO  
APPLICANT: OCHIAI, KEIKO  
APPLICANT: YOKOI, HARUHIKO  
APPLICANT: TATEISHI, NAKO  
APPLICANT: SENO, AKIHIRO  
APPLICANT: IKEDA, MASATO  
APPLICANT: OZAKI, AKIO  
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
FILE REFERENCE: 249-125  
CURRENT APPLICATION NUMBER: US/09/738,626  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: JP 99/377484  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: JP 00/159162  
PRIOR FILING DATE: 2000-04-07  
PRIOR APPLICATION NUMBER: JP 00/280988  
PRIOR FILING DATE: 2000-08-03  
NUMBER OF SEQ ID NOS: 7059  
SOFTWARE: PatentIn ver. 3.0  
SEQ ID NO 5197  
LENGTH: 600  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-09-738-626-5197

Query Match 49.5%; Score 49; DB 10; Length 600;  
Best Local Similarity 66.7%; Pred. No. 1e+02;

Matches 14; Conservative 2; Mismatches 3; Indels 2; Gaps 2;  
QY 1 STSQDNDSTSGTSTSDS 20  
DB 426 SNSSDNDST-GNDSTGSDSDS 445

RESULT 15  
US-10-369-493-22159  
Sequence 22159, Application US/10369493  
Publication No. US20030233675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
FILE REFERENCE: 38-10(52052)B  
CURRENT APPLICATION NUMBER: US/10/369,493  
PRIOR FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 22159  
LENGTH: 1189  
TYPE: PRT  
ORGANISM: Saccharomyces cerevisiae  
US-10-369-493-22159

Query Match 49.5%; Score 49; DB 12; Length 1189;  
Best Local Similarity 55.6%; Pred. No. 2.2e+02;  
Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 TSQNDNDSTSGTSTSDS 19  
DB 1120 SSNSDSDSNSSSDSVSDSS 1137

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Job time : 5.06506 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 20, 2004, 14:18:04 ; Search time 16.2082 Seconds  
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Title: US-09-412-100-23\_COPY\_105\_168

Perfect score: 321

Sequence: 1 MLGSLNTLKGSGNNTTST.....DSTSDSDPMQLKMFSEI 64

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Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	321	100.0	403	9	US-09-086-118-23
2	321	100.0	403	9	US-09-835-684-3
3	321	100.0	403	9	US-09-880-371-3
4	321	100.0	403	9	US-09-879-248-3
5	321	100.0	403	9	US-09-770-693-3
6	321	100.0	403	10	US-09-766-348-3
7	321	100.0	403	12	US-10-387-806-23
8	321	100.0	403	15	US-10-034-158-3
9	321	100.0	403	15	US-10-010-390-3
10	77	24.0	344	9	US-09-086-118-27
11	77	24.0	344	9	US-09-835-684-11
12	77	24.0	344	9	US-09-880-371-11
13	77	24.0	344	9	US-09-879-248-15
14	77	24.0	344	9	US-09-770-693-7
15	77	24.0	344	10	US-09-766-348-7

16	77	24.0	344	12	US-10-387-806-27
17	77	24.0	344	15	US-10-034-158-7
18	77	24.0	344	15	US-10-010-390-11
19	77	24.0	344	9	US-09-815-242-12713
20	72.5	22.6	1021	9	US-09-815-242-5471
21	72.5	22.6	1021	9	US-09-815-242-12544
22	72	22.4	2283	12	US-10-172-502-4
23	71.5	22.3	205	10	US-09-738-626-5128
24	71	22.1	485	12	US-10-172-502-18
25	70.5	22.0	683	9	US-09-841-132-357
26	70.5	22.0	821	9	US-09-841-132-195
27	70.5	22.0	1776	9	US-09-841-132-179
28	70	21.8	434	12	US-10-032-585-7690
29	69	21.5	405	9	US-09-864-761-38102
30	68.5	21.3	1770	9	US-09-841-132-344
31	67.5	21.0	502	9	US-09-815-242-5904
32	67.5	21.0	560	9	US-09-815-242-13057
33	67.5	21.0	936	15	US-10-156-761-11212
34	67	20.9	1367	10	US-09-801-368-108
35	66.5	20.7	833	12	US-10-310-154-480
36	66.5	20.7	833	12	US-10-369-493-21936
37	66.5	20.7	936	8	US-08-781-986A-5249
38	66	20.6	258	12	US-10-104-047-3034
39	66	20.6	464	9	US-09-815-242-5148
40	66	20.6	1253	12	US-10-363-798-2
41	65.5	20.4	175	12	US-10-264-049-2942
42	65.5	20.4	195	10	US-09-764-864-854
43	65.5	20.4	1377	12	US-10-354-358-32
44	65.5	20.4	1377	12	US-10-169-237-16
45	65	20.2	309	12	US-10-369-493-2419

#### ALIGNMENTS

#### RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600

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; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 403 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
;   US-09-086-118-23
;
Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 60
Db 105 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-835-684-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 60
Db 105 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Derocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

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; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-880-371-3
;
Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 60
Db 105 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEROP
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
; US-09-879-248-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 60
Db 105 MLGGSINTLGSKGGNNTTSTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMQQLKX 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 321; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSLLTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSLLTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; TITLE OF INVENTION: SEED TREATMENT
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 321; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGGSLLTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 60
Db 105 MLGGSLLTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
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; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 321; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 105 MLGGSLLTLGSKGNNTTTNSPLDQALGINSTSONDDSTGTDSTSDSSDPMOQLLKM 164

QY 61 FSEI 64
Db 165 FSEI 168

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

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Best Local Similarity 100.0%; Pred. No. 3.4e-28;
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 FSEI 64
Db 165 FSEI 168

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviado, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
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;; PRIOR FILING DATE: 2000-11-13  
;; NUMBER OF SEQ ID NOS: 14  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 3  
;; LENGTH: 403  
;; TYPE: PRT  
;; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 321; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.4e-28;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 105 MLGGSNTLGSKGNNTTSTNSPLDQA--LGINSTSONDDSTS-----GTDSTSDSDPMQQLKMF 61  
QY 61 FSEI 64  
DB 165 FSEI 168

RESULT 10  
US-09-086-118-27  
; Sequence 27, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 27:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 344 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-27

Query Match 24.0%; Score 77; DB 9; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
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QY 14 GNNTTSTTNSPLDQA--LGINSTSONDDSTS-----GTDSTSDSDPMQQLKMF 61  
DB 60 GGGTGTGNAPAKDGNANAGANDPSKNDPSKSOAQSANKTGNVDDANNQDPMQALMQLL 119  
QY 62 SEI 64  
DB 120 EDL 122

RESULT 11  
US-09-835-684-11  
; Sequence 11, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Pseudomonas solanacearum  
US-09-835-684-11

Query Match 24.0%; Score 77; DB 9; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
QY 14 GNNTTSTTNSPLDQA--LGINSTSONDDSTS-----GTDSTSDSDPMQQLKMF 61  
DB 60 GGGTGTGNAPAKDGNANAGANDPSKNDPSKSOAQSANKTGNVDDANNQDPMQALMQLL 119  
QY 62 SEI 64  
DB 120 EDL 122

RESULT 12  
US-09-880-371-11  
; Sequence 11, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Pseudomonas solanacearum  
US-09-880-371-11

Query Match 24.0%; Score 77; DB 9; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
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Db 60 GGTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119  
QY 62 SEI 64  
Db 120 EDL 122

RESULT 13  
US-09-879-248-15  
; Sequence 15, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Pseudomonas solanacearum  
US-09-879-248-15

Query Match 24.0%; Score 77; DB 9; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
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Db 60 GGTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119  
QY 62 SEI 64  
Db 120 EDL 122

RESULT 14  
US-09-770-693-7  
; Sequence 7, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Bauer, David W.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Pseudomonas solanacearum  
US-09-770-693-7

Query Match 24.0%; Score 77; DB 9; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
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QY 62 SEI 64  
Db 120 EDL 122

RESULT 15  
US-09-766-348-7  
; Sequence 7, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Pseudomonas solanacearum  
US-09-766-348-7

Query Match 24.0%; Score 77; DB 10; Length 344;  
Best Local Similarity 30.2%; Pred. No. 1.1;  
Matches 19; Conservative 11; Mismatches 21; Indels 12; Gaps 2;  
QY 14 GNNTTSTTNSPLDQA---LGINSTSQNDSTSTSDSDSDPMQQLKMF 61  
Db 60 GGTGTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDDANNQDPMQALMQLL 119  
QY 62 SEI 64  
Db 120 EDL 122

Search completed: January 20, 2004, 14:55:44  
Job time : 17.2082 secs

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2	475	100.0	403	9	US-09-835-684-3	Sequence 3, Appli	
3	475	100.0	403	9	US-09-880-371-3	Sequence 3, Appli	
4	475	100.0	403	9	US-09-879-248-3	Sequence 3, Appli	
5	475	100.0	403	9	US-09-770-693-3	Sequence 3, Appli	
6	475	100.0	403	10	US-09-766-348-3	Sequence 3, Appli	
7	475	100.0	403	12	US-10-387-806-23	Sequence 23, Appl	
8	475	100.0	403	15	US-10-034-158-3	Sequence 3, Appli	
9	475	100.0	403	15	US-10-010-390-3	Sequence 3, Appli	
10	109	22.9	579	14	US-10-108-605-215	Sequence 215, Appl	
11	104	21.9	344	9	US-09-086-118-27	Sequence 27, Appl	
12	104	21.9	344	9	US-09-835-684-11	Sequence 11, Appl	
13	104	21.9	344	9	US-09-880-371-11	Sequence 11, Appl	
14	104	21.9	344	9	US-09-879-248-15	Sequence 15, Appl	
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; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-086-118-23

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 2
US-09-835-684-3
; Sequence 3, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; TITLE OF INVENTION: REMICK, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 3
US-09-880-371-3
; Sequence 3, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15

; INFORMATION FOR SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 60
Db 76 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 4
US-09-879-248-3
; Sequence 3, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-879-248-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGLGNGLGGGGLGEGLSNALNDMLGGSNLTLGSKGNNNTTSTNSPLDQALGI 60
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QY 61 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 93
Db 136 NSTSQNDSTSGTDTSDSDSDPMQQLKMFSEI 168

RESULT 5
US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US20020069434A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Bauer, David W.
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-770-693-3

Query Match      100.0%; Score 475; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
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Db 76 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 93
    |||||||
Db 136 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 168

RESULT 6
US-09-766-348-3
; Sequence 3, Application US/09766348
; Patent No. US20020116733A1
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY
; FILE REFERENCE: 19603/2986
; CURRENT APPLICATION NUMBER: US/09/766,348
; CURRENT FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 08/984,207
; PRIOR FILING DATE: 1997-12-03
; PRIOR APPLICATION NUMBER: 60/033,230
; PRIOR FILING DATE: 1996-12-05
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-766-348-3

Query Match      100.0%; Score 475; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
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QY 61 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 93
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Db 136 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 168

RESULT 7
US-10-387-806-23
; Sequence 23, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
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; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-387-806-23

Query Match      100.0%; Score 475; DB 12; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
    |||||||
Db 76 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 93
    |||||||
Db 136 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 168

RESULT 8
US-10-034-158-3
; Sequence 3, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-034-158-3

Query Match      100.0%; Score 475; DB 15; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.9e-39;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 60
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Db 76 MGGGLGGGNGLGGGGGGLGEGLSNALNDMLGGSNTLTGSKGNNNTTSTNSPLDQALGI 135
    |||||||

QY 61 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 93
    |||||||
Db 136 NSTSQNDSTSGTDTSDSDPMPQQLKMFSEI 168

RESULT 9
US-10-010-390-3
; Sequence 3, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
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;; PRIOR FILING DATE: 2000-11-13  
;; NUMBER OF SEQ ID NOS: 14  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 3  
;; LENGTH: 403  
;; TYPE: PRT  
;; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 475; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 7.9e-39;  
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNLTGSKGNNTTSTTNSPLDQALGI 60  
DB 76 MGGGLGGGGLNGGSGGLGEGLSNALNDMLGSLNLTGSKGNNTTSTTNSPLDQALGI 135

QY 61 NSTSQNDSTSGTDSSTSDSDPQQLKMFSEI 93  
DB 136 NSTSQNDSTSGTDSSTSDSDPQQLKMFSEI 168

RESULT 10  
;; Sequence 215, Application US/10108605  
;; Publication No. US20020160934A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Broadus, Julie  
;; APPLICANT: Stam, Lynn  
;; APPLICANT: Bachmann, Jane  
;; APPLICANT: Kamdar, Kim  
;; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE  
;; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF  
;; FILE REFERENCE: 31133B  
;; CURRENT APPLICATION NUMBER: US/10/108,605  
;; CURRENT FILING DATE: 2002-03-27  
;; PRIOR APPLICATION NUMBER: US 09/761,142  
;; PRIOR FILING DATE: 2001-01-16  
;; PRIOR APPLICATION NUMBER: US 60/176,418  
;; PRIOR FILING DATE: 2000-01-14  
;; NUMBER OF SEQ ID NOS: 361  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 215  
;; LENGTH: 579  
;; TYPE: PRT  
;; ORGANISM: Drosophila melanogaster  
US-10-108-605-215

Query Match 22.9%; Score 109; DB 14; Length 579;  
Best Local Similarity 35.6%; Pred. No. 0.013;  
Matches 31; Conservative 17; Mismatches 31; Indels 8; Gaps 4;

QY 1 MGGGLGG---GLGNGLGGGGLGEGLSNALNDMLGGS-LNTLGSK---GGNNTTSTNSP 53  
DB 283 VGSIGGLAVGGGGAGSGGGGVG-GNAASGVVGGSHVGLGSGNSGIGGVNSVPNSAM 341

QY 54 LDQALGINTSQNDSTSGTDSSTSDS 80  
DB 342 MGVGGGLGGSGSGSGGAGGHELDNS 368

RESULT 11  
US-09-086-118-27  
;; Sequence 27, Application US/09086118  
;; Patent No. US20010011380A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Laby, Ronald J.  
;; APPLICANT: Beer, Steven V.  
;; APPLICANT: Wei, Zhong-Min  
;; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
;; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
;; TITLE OF INVENTION: THEREOF  
;; NUMBER OF SEQUENCES: 30

;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
;; STREET: Clinton Square, P.O. Box 1051  
;; CITY: Rochester  
;; STATE: New York  
;; COUNTRY: U.S.A.  
;; ZIP: 14603  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/086,118  
;; FILING DATE:  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 60/048,109  
;; FILING DATE: 30-MAY-1997  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Goldman, Michael L.  
;; REGISTRATION NUMBER: 30,727  
;; REFERENCE/DOCKET NUMBER: 19603/1301  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (716) 263-1304  
;; TELEFAX: (716) 263-1600  
;; INFORMATION FOR SEQ ID NO: 27:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 344 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
US-09-086-118-27

Query Match 21.9%; Score 104; DB 9; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.022;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

QY 2 GGGGLG-GGLGNGLGGGGLGEGLSNALNDMLGSLNLTGSKGNNTTSTTNSPLDQALGI 60  
DB 175 GGGAGAGAGGGVGGAGG-ADGGSGA-----GGAGGANGADGGNGVNGQANGPQNGDV 228

QY 61 NSTSQNDSTSGTDSSTSDSDPQQLKMFSEI 93  
DB 229 NGANGADD---GSEDQGGTGVQLKMLKINAL 258

RESULT 12  
US-09-835-684-11  
;; Sequence 11, Application US/09835684  
;; Patent No. US20020019337A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Wei, Zhong-Min  
;; APPLICANT: Qiu, Dewen  
;; APPLICANT: Remick, Dean  
;; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
;; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
;; TITLE OF INVENTION: DESICCATION  
;; FILE REFERENCE: 21829/71  
;; CURRENT APPLICATION NUMBER: US/09/835,684  
;; CURRENT FILING DATE: 2001-04-16  
;; PRIOR APPLICATION NUMBER: 60/198,359  
;; PRIOR FILING DATE: 2000-04-19  
;; NUMBER OF SEQ ID NOS: 12  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 11  
;; LENGTH: 344  
;; TYPE: PRT  
;; ORGANISM: Pseudomonas solanacearum  
US-09-835-684-11

Query Match 21.9%; Score 104; DB 9; Length 344;

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Best Local Similarity 31.2%; Pred. No. 0.022;
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

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Db      175 GGGAGAGAGGGVGGAGG-ADGGSCA-----GGAGGANGADGGNGVNGNQANGPQNAGDV 228

Qy      61 NSTSQNDSTSGTSTSDSSDPMQOLKMFSEI 93
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Db     229 NGANCADD---GSEDQGGLTGVLQKLMIKNAL 258
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RESULT 13
US-09-880-371-11
; Sequence 11, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRocher, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-880-371-11

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Query Match	21.9%	Score 104;	DB 9;	Length 344;
Best Local Similarity	31.2%	Pred. No. 0.022;		
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Qy	2	GGGIG-GGLGNLGGSGGLGELGNALNDMLGGSLNTLGSKGNNTTTSTNSPLDQALGI	60	
Db	175	GGGAGAGAGGGVGGAGG-ADGGSGA-----GGAGGANGADGGVNGVNGQANGPQNGADV	228	
Qy	61	NSTQNDDSTSGTSTSTSDSSDPMQQLKMFSEI	93	
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RESULT 14
US-09-879-248-15
; Sequence 15, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-05-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-879-248-15

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Query Match 21.9%; Score 104; DB 9; Length 344;  
Best Local Similarity 31.2%; Pred. No. 0.022;  
Matches 29; Conservative 17; Mismatches 37; Indels 10; Gaps 4;

Qy	2	GGGLG--GGGNGLGGSGGLGEGLSNALNDMLGGSINTLGGKGGNNNTSTTNSPLDQALGI	60
Db	175	GGGAGAGGAGGGVGGAGG--ADGGSGA-----GGAGGANGADGGGVNGQANGPQNGADV	228
Qy	61	NTSQNDSDSTGDTSDSDSPMQQLKMFSEI	93
Db	229	NGANGADD---GSEDOGGLTGVLOKLAKLINAL	258

RESULT 15  
 US-09-770-693-7  
 ; Sequence 7, Application US/09770693  
 ; Patent No. US20020069434A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Beer, Steven V.  
 ; APPLICANT: Bauer, David W.  
 ; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
 ; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
 ; FILE REFERENCE: 19603/2501  
 ; CURRENT APPLICATION NUMBER: US/09/770,693  
 ; CURRENT FILING DATE: 2001-01-26  
 ; PRIOR APPLICATION NUMBER: 60/178,565  
 ; PRIOR FILING DATE: 2000-01-26  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 7  
 ; LENGTH: 344  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas solanacearum  
 US-09-770-693-7

Query Match	21.94	Score 104	DB 9	Length 344
Best Local Similarity	31.24	Pred. No. 0.022		
Matches	29	Conservative	17	Mismatches 37; Indels 10; Gaps 4
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Db	175	GGGAGAGAGGGVGGAGG-ADGSGA----	GGAGGANGADGGVNGNQANGPQNGADV	228
Qy	61	NSTSQNDSTSGTDTSTDSDDSPMQQLLKMFSEI	93	
Db	229	NGANGAD-----GSEDOGGLTGVLKMKILNAL	258	

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

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Title: US-09-412-100-23\_COPY\_121\_150

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Sequence: 1 TTSTTNSPLDQALGINSQNDDSTSGTDS 30

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Searched: 762491 seqs, 204481190 residues

Total number of hits satisfying chosen parameters: 762491

Minimum DB seq length: 0

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18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	150	100.0	403	9	US-09-835-684-3
3	150	100.0	403	9	US-09-880-371-3
4	150	100.0	403	9	US-09-879-248-3
5	150	100.0	403	9	US-09-770-693-3
6	150	100.0	403	10	US-09-766-348-3
7	150	100.0	403	12	US-10-387-806-23
8	150	100.0	403	15	US-10-034-158-3
9	150	100.0	403	15	US-10-010-390-3
10	56	37.3	1025	15	US-10-055-475-2
11	56	37.3	1025	15	US-10-055-475-7
12	56	37.3	1025	15	US-10-055-475-9
13	56	37.3	1025	15	US-10-228-897-2
14	55.5	37.0	1402	12	US-10-379-616-12
15	54	36.0	485	12	US-10-172-502-18

16	54	36.0	2283	12	US-10-172-502-4	Sequence 4, Appli
17	54	36.0	2344	9	US-09-815-242-12713	Sequence 12713, A
18	53	35.3	775	15	US-10-156-761-12824	Sequence 12824, A
19	53	35.3	929	15	US-10-156-761-11828	Sequence 11828, A
20	52	34.7	683	9	US-09-841-132-357	Sequence 357, App
21	52	34.7	821	9	US-09-841-132-195	Sequence 195, App
22	52	34.7	1178	15	US-10-128-714-8240	Sequence 8240, Ap
23	52	34.7	1776	9	US-09-841-132-179	Sequence 179, App
24	51.5	34.3	205	10	US-09-738-626-5128	Sequence 5128, Ap
25	51.5	34.3	458	11	US-09-770-564-9	Sequence 9, Appli
26	51.5	34.3	593	11	US-09-988-057B-66	Sequence 66, Appl
27	51.5	34.3	635	12	US-10-093-524-12	Sequence 12, Appli
28	49.5	33.0	951	12	US-10-379-616-8	Sequence 8, Appli
29	49.5	33.0	1021	9	US-09-815-242-5471	Sequence 5471, Ap
30	49.5	33.0	1420	12	US-10-379-616-4	Sequence 12544, A
31	49.5	33.0	1420	12	US-10-032-585-7711	Sequence 4, Appli
32	49	32.7	313	12	US-10-032-585-7711	Sequence 7711, Ap
33	49	32.7	769	12	US-10-032-585-7717	Sequence 7717, Ap
34	49	32.7	946	12	US-09-840-746-1	Sequence 1, Appli
35	49	32.7	1481	10	US-09-371-900-40	Sequence 40, Appl
36	49	32.7	1481	10	US-09-924-417-60	Sequence 60, Appl
37	49	32.7	1481	12	US-10-186-950-40	Sequence 40, Appl
38	48	32.0	309	12	US-10-369-493-2419	Sequence 2419, Ap
39	48	32.0	344	12	US-10-369-493-2420	Sequence 2420, Ap
40	48	32.0	430	15	US-10-043-487-265	Sequence 265, App
41	48	32.0	553	12	US-10-347-278-13	Sequence 13, Appl
42	48	32.0	553	12	US-10-347-252-13	Sequence 13, Appl
43	48	32.0	562	15	US-10-083-357-1329	Sequence 1329, Ap
44	48	32.0	605	10	US-09-801-368-428	Sequence 428, App
45	48	32.0	605	12	US-10-369-493-22016	Sequence 22016, A

#### ALIGNMENTS

#### RESULT 1

US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 150; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

## RESULT 2

US-09-835-684-3  
Sequence 3, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
TITLE OF INVENTION: DESICCATION  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
CURRENT FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 150; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

## RESULT 3

US-09-880-371-3  
Sequence 3, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Derocher, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
TITLE OF INVENTION: PLANTS  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880,371  
CURRENT FILING DATE: 2001-06-13  
PRIOR APPLICATION NUMBER: 60/211,585  
PRIOR FILING DATE: 2000-06-15  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-880-371-3

Query Match 100.0%; Score 150; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

## RESULT 4

US-09-879-248-3  
Sequence 3, Application US/09879248  
Patent No. US20020062500A1  
GENERAL INFORMATION:  
APPLICANT: Fan, Hao  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
TITLE OF INVENTION: THEREOF  
FILE REFERENCE: 21829/81  
CURRENT APPLICATION NUMBER: US/09/879,248  
CURRENT FILING DATE: 2001-06-12  
PRIOR APPLICATION NUMBER: 60/212,211  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 150; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

## RESULT 5

US-09-770-693-3  
Sequence 3, Application US/09770693  
Patent No. US20020069434A1  
GENERAL INFORMATION:  
APPLICANT: Beer, Steven V.  
APPLICANT: Bauer, David W.  
TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
FILE REFERENCE: 19603/2501  
CURRENT APPLICATION NUMBER: US/09/770,693  
CURRENT FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/178,565  
PRIOR FILING DATE: 2000-01-26  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 403  
TYPE: PRT  
ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 150; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTTNSPLDQALGINSTQNDNSTSGTDS 30  
Db 121 TTSTTNSPLDQALGINSTQNDNSTSGTDS 150

## RESULT 6

US-09-766-348-3  
; Sequence 3, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; PRIOR FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-766-348-3

Query Match 100.0%; Score 150; DB 10; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTSONDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTSONDDSTSGTDS 150

RESULT 7  
US-10-387-806-23  
; Sequence 23, Application US/10387806  
; Publication No. US20030182683A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ron J.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF  
; FILE REFERENCE: 19603/3187  
; CURRENT APPLICATION NUMBER: US/10/387,806  
; CURRENT FILING DATE: 2003-03-12  
; PRIOR APPLICATION NUMBER: 60/048,109  
; PRIOR FILING DATE: 1997-05-30  
; PRIOR APPLICATION NUMBER: 09/086,118  
; PRIOR FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-387-806-23

Query Match 100.0%; Score 150; DB 12; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTSONDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTSONDDSTSGTDS 150

RESULT 8  
US-10-034-158-3  
; Sequence 3, Application US/10034158  
; Publication No. US2003028918A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
; FILE REFERENCE: 21829/230  
; CURRENT APPLICATION NUMBER: US/10/034,158  
; CURRENT FILING DATE: 2001-12-20  
; PRIOR APPLICATION NUMBER: 09/597,840  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: 09/013,587  
; PRIOR FILING DATE: 1998-01-26  
; PRIOR APPLICATION NUMBER: 60/036,048  
; PRIOR FILING DATE: 1997-01-27  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-034-158-3

Query Match 100.0%; Score 150; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTSONDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTSONDDSTSGTDS 150

RESULT 9  
US-10-010-390-3  
; Sequence 3, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 150; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8e-13;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTSTNSPLDQALGINSTSONDDSTSGTDS 30  
Db 121 TTSTNSPLDQALGINSTSONDDSTSGTDS 150

RESULT 10  
US-10-055-475-2  
; Sequence 2, Application US/10055475  
; Publication No. US20030022855A1  
; GENERAL INFORMATION:  
; APPLICANT: Fisher, Paul B.  
; APPLICANT: Kang, Dong-Chul  
; APPLICANT: Gopalkrishnan, Rahul V.  
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND  
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT  
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)  
; CURRENT APPLICATION NUMBER: US/10/055,475  
; CURRENT FILING DATE: 2002-01-22  
; PRIOR APPLICATION NUMBER: PCT/US01/06960

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; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-2

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 11
US-10-055-475-7
; Sequence 7, Application US/10055475
; Publication No. US20030022855A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)
; CURRENT APPLICATION NUMBER: US/10/055,475
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-7

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 12
US-10-055-475-9
; Sequence 9, Application US/10055475
; Publication No. US20030022855A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; TITLE OF INVENTION: USE OF MDA-5 AS AN ANTIVIRAL AND
; TITLE OF INVENTION: ANTIPROLIFERATIVE AGENT
; FILE REFERENCE: A34614-A-PCT-USA-A (070050.1921)
; CURRENT APPLICATION NUMBER: US/10/055,475
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-055-475-9

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 13
US-10-228-897-2
; Sequence 2, Application US/10228897
; Publication No. US20030092043A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; APPLICANT: Kang, Dong-Chul
; APPLICANT: Gopalkrishnan, Rahul V.
; TITLE OF INVENTION: MELANOMA DIFFERENTIATION ASSOCIATED
; TITLE OF INVENTION: GENE-5 AND PROMOTER AND USES THEREOF
; FILE REFERENCE: A34614-A-PCT-USA (070050.2121)
; CURRENT APPLICATION NUMBER: US/10/228,897
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: PCT/US01/06960
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 09/515,363
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1025
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-228-897-2

Query Match      37.3%; Score 56; DB 15; Length 1025;
Best Local Similarity 50.0%; Pred. No. 34;
Matches 12; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY      7 SPLDQALGINSTQNDDSTSGTDS 30
Db      268 SCLDESIGHNSNMGSDSGTGMGSDS 291

RESULT 14
US-10-379-616-12
; Sequence 12, Application US/10379616
; Publication No. US20030153047A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA represented by THE SE
; TITLE OF INVENTION: AIB1, A novel steroid receptor co-activator
; FILE REFERENCE: 49944
; CURRENT APPLICATION NUMBER: US/10/379,616
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US/09/125,635
; PRIOR FILING DATE: 1998-08-21
; PRIOR APPLICATION NUMBER: 60/049,728
; PRIOR FILING DATE: 1997-06-17
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 1402
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-379-616-12

Query Match      37.0%; Score 55.5; DB 12; Length 1402;
Best Local Similarity 44.1%; Pred. No. 59;
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Matches 15; Conservative 4; Mismatches 10; Indels 5; Gaps 1;

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RESULT 15  
 US-10-172-502-18  
 ; Sequence 18, Application US/10172502  
 ; Publication No. US20030185833A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: FOSTER, Timothy et al.  
 ; TITLE OF INVENTION: CROSS-REACTIVE MONOCLONAL AND POLYCLONAL ANTIBODIES.  
 ; FILE REFERENCE: P07263US01/BAS  
 ; CURRENT APPLICATION NUMBER: US/10/172,502  
 ; CURRENT FILING DATE: 2002-06-17  
 ; PRIOR APPLICATION NUMBER: US 60/298,098  
 ; PRIOR FILING DATE: 2001-06-15  
 ; NUMBER OF SEQ ID NOS: 29  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 18  
 ; LENGTH: 485  
 ; TYPE: PRT  
 ; ORGANISM: Staphylococcus epidermidis  
 US-10-172-502-18

Query Match 36.0%; Score 54; DB 12; Length 485;  
 Best Local Similarity 44.8%; Pred. No. 27;  
 Matches 13; Conservative 5; Mismatches 11; Indels 0; Gaps 0;

QY 2 TSTNSPLDQALGINSTSQNDSTSGTDS 30  
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 Db 61 TSTNSTSNQOEKLTSTSESTSSKNTSS 89

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Maximum Match 100%

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SUMMARIES

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1	149	100.0	403	9	US-09-086-118-23
2	149	100.0	403	9	US-09-835-684-3
3	149	100.0	403	9	US-09-880-371-3
4	149	100.0	403	9	US-09-879-248-3
5	149	100.0	403	9	US-09-770-693-3
6	149	100.0	403	10	US-09-766-348-3
7	149	100.0	403	12	US-10-387-806-23
8	149	100.0	403	15	US-10-034-158-3
9	149	100.0	403	15	US-10-010-390-3
10	57	38.3	428	15	US-10-056-884-2
11	57	38.3	435	15	US-10-080-980-4
12	55	36.9	195	12	US-10-310-154-675
13	55	36.9	1253	12	US-10-363-798-2
14	54	36.2	283	12	US-10-289-762-424
15	54	36.2	382	10	US-09-993-844-4

16	54	36.2	398	9	US-09-823-114-16
17	54	36.2	398	10	US-09-966-871-1
18	54	36.2	398	10	US-09-966-871-79
19	54	36.2	398	11	US-09-841-720-2
20	54	36.2	398	14	US-10-039-645-1
21	54	36.2	398	14	US-10-039-645-79
22	54	36.2	398	15	US-10-290-748-16
23	54	36.2	412	15	US-10-080-917-11
24	54	36.2	754	15	US-10-153-668-254
25	54	36.2	1258	10	US-09-867-852-107
26	54	36.2	1770	9	US-09-841-132-444
27	53.5	35.9	2344	9	US-09-815-242-12713
28	53	35.6	279	12	US-10-410-842A-62
29	53	35.6	555	10	US-09-929-629-5
30	51.5	34.6	1377	12	US-10-354-658-32
31	51.5	34.6	1377	12	US-10-169-297-16
32	51	34.2	683	9	US-09-841-132-357
33	51	34.2	821	9	US-09-841-132-195
34	51	34.2	1031	9	US-09-815-242-10932
35	51	34.2	1776	9	US-09-841-132-179
36	50	33.6	739	12	US-10-374-979-89
37	50	33.6	739	15	US-10-097-534-10
38	50	33.6	752	11	US-09-919-039-235
39	50	33.6	947	15	US-10-293-822-1
40	50	33.6	1474	12	US-10-369-493-6164
41	50	33.6	1474	12	US-10-369-493-6165
42	49.5	33.2	1378	12	US-10-205-219-50
43	49	32.9	236	12	US-10-371-099-147
44	49	32.9	236	12	US-10-371-264-161
45	49	32.9	236	12	US-10-371-122-147

ALIGNMENTS

RESULT 1

US-09-086-118-23

; Sequence 23, Application US/09086118

; Patent No. US20010011380A1

; GENERAL INFORMATION:

; APPLICANT: Laby, Ronald J.

; APPLICANT: Beer, Steven V.

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSER: Nixon, Hargrave, Devans & Doyle LLP

; STREET: Clinton Square, P.O. Box 1051

; CITY: Rochester

; STATE: New York

; COUNTRY: U.S.A.

; ZIP: 14603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC Compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/086,118

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/048,109

; FILING DATE: 30-MAY-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Goldman, Michael L.

; REGISTRATION NUMBER: 30,727

; REFERENCE/DOCKET NUMBER: 19603/1301

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (716) 263-1304

; TELEFAX: (716) 263-1600

; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 100.0%; Score 149; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

## RESULT 2

US-09-835-684-3  
; Sequence 3, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-835-684-3

Query Match 100.0%; Score 149; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

## RESULT 3

US-09-880-371-3  
; Sequence 3, Application US/09880371  
; Patent No. US20020059659A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-880-371-3

Query Match 100.0%; Score 149; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30  
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

## RESULT 4

US-09-879-248-3  
; Sequence 3, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 149; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30  
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

## RESULT 5

US-09-770-693-3  
; Sequence 3, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Bauer, David W.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 149; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTDTSDSDPMQQLKMF 30  
DB 137 STSQNDSTSGTDTSDSDPMQQLKMF 166

## RESULT 6

US-09-766-348-3  
; Sequence 3, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; PRIOR FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-766-348-3

Query Match 100.0%; Score 149; DB 10; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSDPMQQLKMFS 30  
Db 137 STSQNDSTSGTSTSDSDPMQQLKMFS 166

RESULT 7  
US-10-387-806-23  
; Sequence 23, Application US/10387806  
; Publication No. US20030182683A1  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ron J.  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE AND USES THEREOF  
; FILE REFERENCE: 19603/3187  
; CURRENT APPLICATION NUMBER: US/10/387,806  
; CURRENT FILING DATE: 2003-03-12  
; PRIOR APPLICATION NUMBER: 60/048,109  
; PRIOR FILING DATE: 1997-05-30  
; PRIOR APPLICATION NUMBER: 09/086,118  
; PRIOR FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-387-806-23

Query Match 100.0%; Score 149; DB 12; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSDPMQQLKMFS 30  
Db 137 STSQNDSTSGTSTSDSDPMQQLKMFS 166

RESULT 8  
US-10-034-158-3  
; Sequence 3, Application US/10034158  
; Publication No. US20030028918A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min

US-09-766-348-3  
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
; FILE REFERENCE: 21829/230  
; CURRENT APPLICATION NUMBER: US/10/034,158  
; CURRENT FILING DATE: 2001-12-20  
; PRIOR APPLICATION NUMBER: 09/597,840  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: 09/013,587  
; PRIOR FILING DATE: 1998-01-26  
; PRIOR APPLICATION NUMBER: 60/036,048  
; PRIOR FILING DATE: 1997-01-27  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-034-158-3

Query Match 100.0%; Score 149; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSDPMQQLKMFS 30  
Db 137 STSQNDSTSGTSTSDSDPMQQLKMFS 166

RESULT 9  
US-10-010-390-3  
; Sequence 3, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-010-390-3

Query Match 100.0%; Score 149; DB 15; Length 403;  
Best Local Similarity 100.0%; Pred. No. 3.5e-12;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSTSDSDPMQQLKMFS 30  
Db 137 STSQNDSTSGTSTSDSDPMQQLKMFS 166

RESULT 10  
US-10-056-884-2  
; Sequence 2, Application US/10056884  
; Publication No. US20030032786A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU  
; TITLE OF INVENTION: K-beta2  
; FILE REFERENCE: D0076 NP  
; CURRENT APPLICATION NUMBER: US/10/056,884  
; CURRENT FILING DATE: 2002-01-24  
; PRIOR APPLICATION NUMBER: US 60/263,872  
; PRIOR FILING DATE: 2001-01-24  
; PRIOR APPLICATION NUMBER: US 60/269,794

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; PRIOR FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-056-884-2

Query Match      38.3%; Score 57; DB 15; Length 428;
Best Local Similarity 48.0%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY 2 TSONDDSTSGTSDTSSDPMQOLL 26
Db 305 TSCNDLSTSSCDQSEASSPQETVI 329

RESULT 11
US-10-080-980-4
; Sequence 4, Application US/10080980
; Publication No. US20030036115A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU
; FILE OF INVENTION: K+betaM6, EXPRESSED HIGHLY IN THE SMALL INTESTINE
; FILE REFERENCE: D0121 NP
; CURRENT APPLICATION NUMBER: US/10/080,980
; CURRENT FILING DATE: 2002-02-21
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/270,132
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/278,953
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-080-980-4

Query Match      38.3%; Score 57; DB 15; Length 435;
Best Local Similarity 48.0%; Pred. No. 12;
Matches 12; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY 2 TSONDDSTSGTSDTSSDPMQOLL 26
Db 312 TSCNDLSTSSCDQSEASSPQETVI 336

RESULT 12
US-10-310-154-675
; Sequence 675, Application US/10310154
; Publication No. US20030233670A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; APPLICANT: Chomet, Paul S.
; APPLICANT: Adams, Thomas H
; APPLICANT: Ruff, Thomas G.
; APPLICANT: Agarwal, Ameeta K.
; APPLICANT: Ahrens, Jeffrey E.
; APPLICANT: Ball, James A.
; APPLICANT: Banu, G.
; APPLICANT: Bell, Erin
; APPLICANT: Boddupalli, Raghava
; APPLICANT: Beikman, Jill
; APPLICANT: Peng, Molian
; APPLICANT: Dong, Jinzhao
; APPLICANT: Duff, Stephen M.
; APPLICANT: Galligan, Meghan M.
; APPLICANT: Hinchey, Brenda S.
; APPLICANT: Huang, Shihshieh
; APPLICANT: Johnson, G. Richard
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; APPLICANT: Jung, Vincent
; APPLICANT: Kretzmer, Keith A
; APPLICANT: Laccetti, Lucille B.
; APPLICANT: Lai, Chao-Qiang
; APPLICANT: Lee, Gary
; APPLICANT: Lin, Jie-Yi
; APPLICANT: Liu, Jingdong
; APPLICANT: Lu, Bin
; APPLICANT: Luethy, Michael M.
; APPLICANT: Lund, Adrian
; APPLICANT: Madson, Linda L.
; APPLICANT: Malloy, Kathleen A.
; APPLICANT: McKiel, Christine L.
; APPLICANT: Miller, Philip W.
; APPLICANT: Padmavathi, Manchikanti
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Start, William G.
; APPLICANT: Tennesen, Dan
; APPLICANT: Vidya, K.R.
; APPLICANT: Wang, Haiyun
; APPLICANT: Xin, Zhanquo
; APPLICANT: Xu, Nanfei
; APPLICANT: Yang, Chunzhi
; APPLICANT: Zeng, Xiaoping
; APPLICANT: Zhang, Qiang
; APPLICANT: Zhao, Yajuan
; APPLICANT: Zhou, Li
; TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants
; FILE REFERENCE: 38-15(52796)B
; CURRENT APPLICATION NUMBER: US/10/310,154
; CURRENT FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 736
; SEQ ID NO 675
; LENGTH: 195
; TYPE: PRT
; ORGANISM: Zea mays
US-10-310-154-675

Query Match      36.9%; Score 55; DB 12; Length 195;
Best Local Similarity 55.0%; Pred. No. 9.1;
Matches 11; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 STSQNDSTSGTSDTSSDSD 20
Db 129 SSSSSSSSSGSDSSSSSD 148

RESULT 13
US-10-363-798-2
; Sequence 2, Application US/10363798
; Publication No. US20030180280A1
; GENERAL INFORMATION:
; APPLICANT: Kong, Xiangyin
; APPLICANT: Xiao, Shangxi
; APPLICANT: Zhao, Guoping
; APPLICANT: Yu, Chuan
; APPLICANT: Hu, Landian
; TITLE OF INVENTION: METHOD OF DIAGNOSING AND TREATING DENTINOGENESIS IMPERFECTA
; TITLE OF INVENTION: TYPE II USING DENTIN SIALOPHOPROTEIN GENE AND CODED
; TITLE OF INVENTION: PRODUCT THEREOF
; FILE REFERENCE: 9548.78USWO
; CURRENT APPLICATION NUMBER: US/10/363,798
; CURRENT FILING DATE: 2003-03-05
; PRIOR APPLICATION NUMBER: CN 00125042.6
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1253
; TYPE: PRT
; ORGANISM: Homo sapiens
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